

Manitowoc

TRADITIONAL CRANE PARTS MANUAL

This manual has been prepared for and is considered part of

4600

Model

46418

Serial Number

GROUP A = Rotating Structure (Includes rotating bed, operator's cab, cases, fuel tanks, transfer pump, counterweights, guards, platforms, catwalks, machinery enclosure, horn)

GROUP B = Upperworks Machinery (Includes front, rear, and auxiliary drums, boom hoist, swing and drive shafts, hand levers, foot pedals, control linkage, rotation indicators, upperworks hydraulic components, hydraulic piping, hydraulic oil reservoir, lubrication pump and piping, blowers)

GROUP C = Air Components & Electrical (Includes control console, air piping, electric wiring, auxiliary light plant and lighting, TV monitoring, compressor and air tank)

GROUP D = Power Components - Upperworks (Includes engine or motor, radiator, auxiliary power plant, take off converters and piping, controls, VICON power lowering, torque limiter, hydraulic pumps and piping, fuel piping, battery box)

GROUP E = Lower Structure & Control (Includes carbody, crawlers, travel shafts and control, steering travel locks, hydraulic travel, travel power outriggers, carrier, pedestal, lowerworks hydraulic piping, RINGER components, barge mounting and machinery, spud drums)

GROUP F = Attachments (Includes booms, jibs, masts, tower, wire rope guides, equalizer, gantry, fairlead, timber guards, boom angle indicator, block-up limit, tag line, hook block, weight ball, upper and lower boom point, wind speed indicator, crowd and retract dipper sticks, dippers,)

O-NUMBER SECTION = (Includes lacing drawings and purchased component parts drawings referenced in sections A through F)

This manual is arranged in sections as listed above. Sections A through F are arranged by group numerical order with an index after each section tab. An alphabetical index for groups A Through F combined is located after the O-number Section. The O-number section is arranged in numerical order by O-number. Following this cover page are the Basic Specifications, Warranty Information, Tool List (if applicable) Outline Dimensions, Weights, and Dealer Listing.

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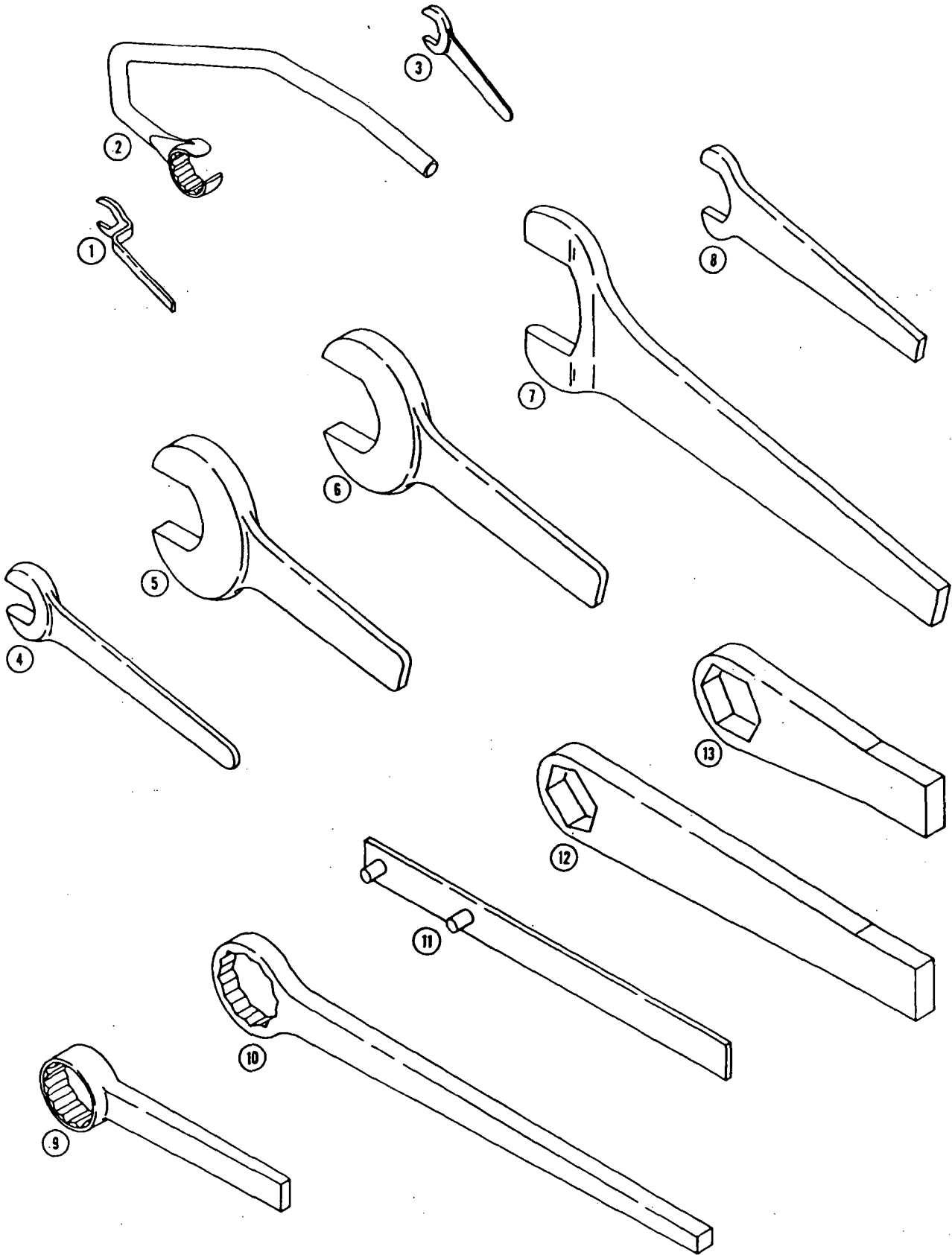
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Manitowoc, Wisconsin

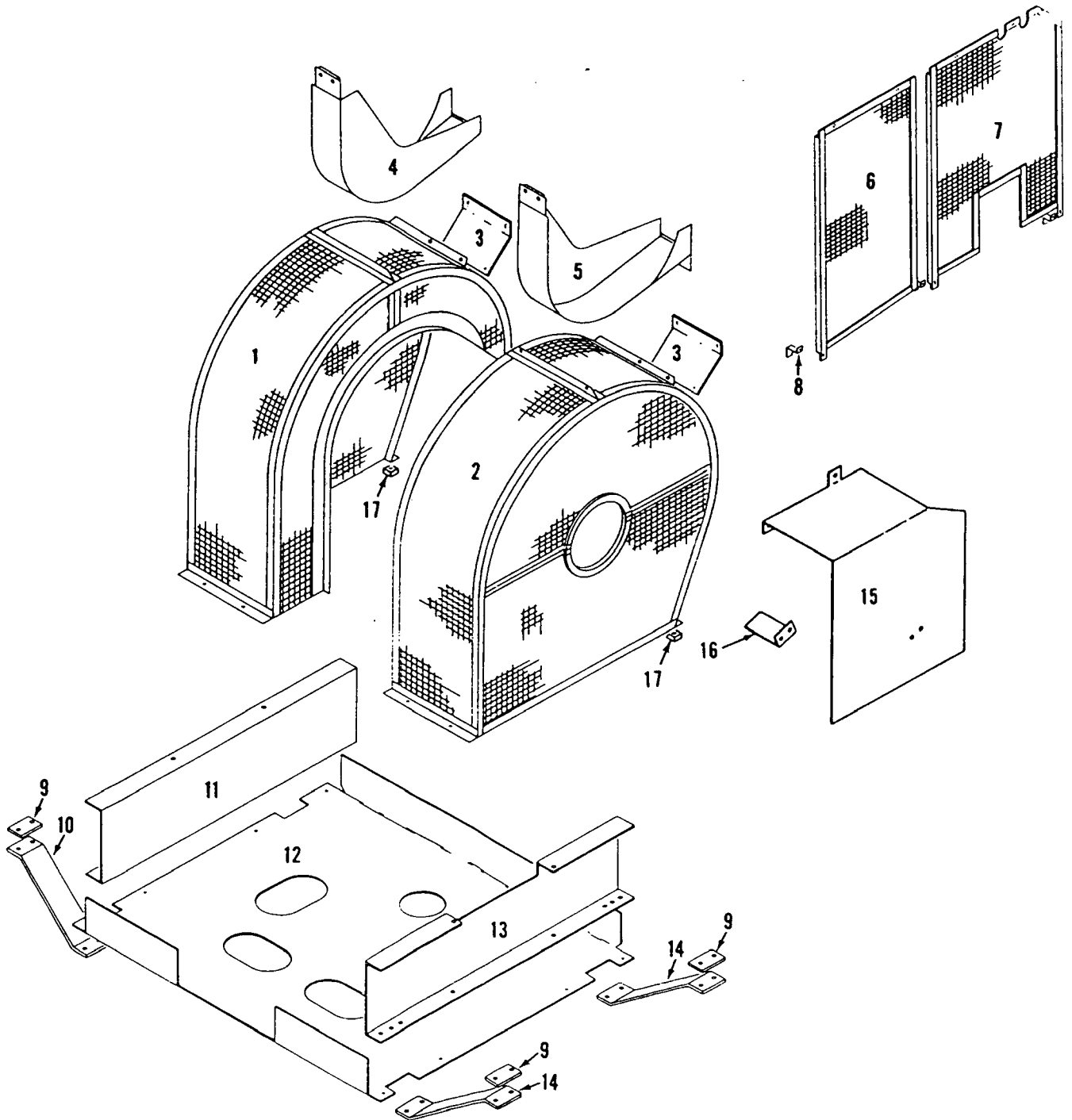
MASTER



0-481-1A

MATERIAL LIST ON BACK

Tool List

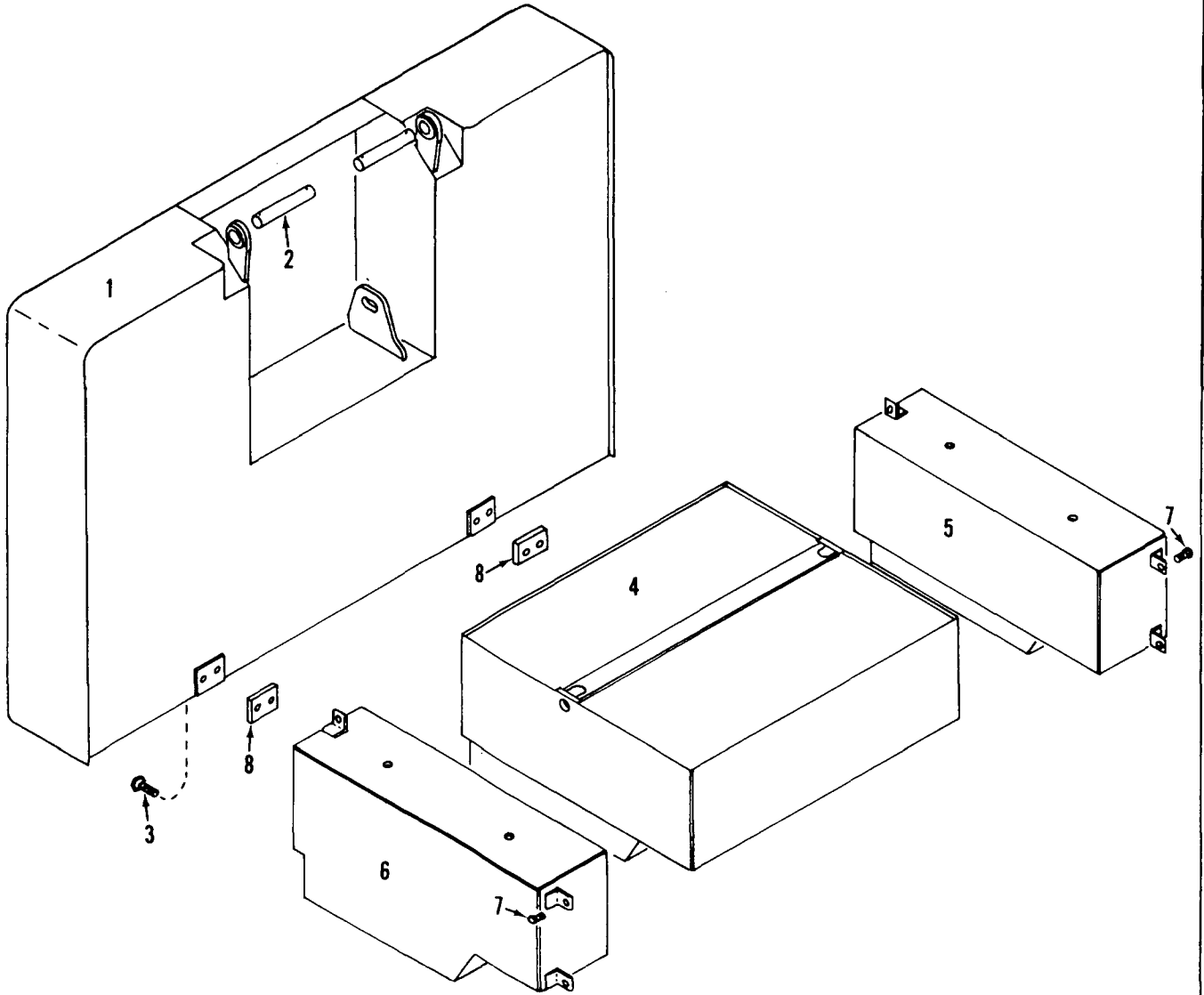


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MASTER



43703C

43703C2

COUNTERWEIGHT

MATERIAL LIST ON BACK

50318-1 Cont.	REV. 0	MODEL 4600
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CAB
(DUAL ENGINES OR SINGLE ENGINES W/DUAL CONVERTERS)
(MACH. W/99 TOOTH FRONT DRUM GEAR)

REF. NO.	PART NUMBER	QUANTITY REQUIRED	DESCRIPTION OF PART	VENDORS PART NO.
			NOTE 10: Delete Panels #32772-6 and 32773-6 and add the following:	
27	48846-6	1	ROOF, Right Front w/capscrews, hex nuts and lockwashers	
28	395125	1	DOOR, Roof	
29	633175	1	PANEL, Roof	
	633138	1	PANEL, Roof	
	48846-2	1	FRAME, Roof	
23	48846-7	1	ROOF, Left Front w/capscrews, hex nuts and lockwashers	
24	633177	1	PANEL, Roof w/cutout	
25	395125	1	DOOR, Roof	
26	48846-3	1	FRAME, Roof	
	633176	1	PANEL, Roof	
			<u>MACHINE W/SINGLE ENGINE</u>	
			NOTE 11: Delete Ref. Nos. 32-44 incl. See "Cab Extension".	
			NOTE 12: ROOF STEP	
97	15689	1	STEP w/stove bolts, hex nuts and lockwashers	
98	15894	1	PLATE, Backing	
			NOTE 13: Bolts #257266 are 1-1/4" - 7 UNC. Prior to design change of July 11, 1979, bolts #257282, 1-1/4" - 12 UNF were used.	
			<u>MACHINE W/AIR CUSHIONED TELESCOPIC BOOM STOP</u>	
			NOTE 14: Delete Ref. No. 30 and add the following:	
24	43438-3	1	DOOR, Roof w/hinges	
27	43438-9	1	DOOR, Roof w/hinges	
			NOTE 15: GRAB IRON AND STEPS	
32A	183956	1	EXTENSION, Roof, Right Front w/capscrews, hex nuts and lockwashers	
47A	97615	1	PANEL, Side w/stove bolts, hex nuts and lockwashers	
100	183957	1	IRON, Grab w/capscrews, hex nuts and lockwashers	
			<u>MACHINE W/SINGLE ENGINE AND DRUM DRIVE ASSIST ASM.</u>	
			NOTE 16: Delete Ref. Nos. 8 and 22 and add the following:	
8	90689	1	EXTENSION, Roof, Left Rear w/capscrews, hex nuts and lockwashers	
22	90688	1	EXTENSION, Roof, Left Front w/capscrews, hex nuts and lockwashers	
			NOTE 17: Delete panels 32772-6 and 32773-6 and add:	
	161961	1	ROOF, Cab Front Asm. (Mach. w/Drum Drive Assist)	
			<u>MACHINE W/SINGLE ENGINE AND DRUM DRIVE ASSIST ASM.</u>	
			<u>W/PLANETARY BOOM HOIST</u>	
			NOTE 18: Delete Ref. Nos. 8 and 22 and add the following:	
8	90689	1	EXTENSION, Roof, Left Rear w/capscrews, hex nuts and lockwashers	
22	90688	1	EXTENSION, Roof, Left Front w/capscrews, hex nuts and lockwashers	
			NOTE 19: Delete panels 32772-6 and 32773-6 and add:	
	162294	1	ROOF, Cab Front Asm. (Mach. w/Drum Drive Assist and Planetary Boom Hoist)	
			NOTE 20:	
			<u>SERIES 3 MACHINE W/TANDEM ENGINE POWER PLANTS</u>	
			(Detroit Diesel 12V-71 & 8V-71 or Cummins KTA-1150-C525 & NTA-855-C360)	
			Delete Ref. Nos. 34, 39, 40 41 & 42 and add the following:	
34	90950	1	EXTENSION, Roof, Right Rear w/capscrews, hex nuts and lockwashers	
39	76189	1	SUPPORT, Right Rear w/capscrews, hex nuts and lockwashers	
40	33212	1	SHUTTER, Radiator w/hook, chain, stove bolts, pins, cotter pins, machine screws, hex nuts, flatwashers &	
				REV 0
				50318-1 Cont.

PLEASE GIVE MACHINE S/N W/ORDER
lockwashers

50447 - 2	REV. I	MODEL 4600
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HOUSE AND HOOK ROLLERS
(QUANTITIES FOR BOTH SIDES)

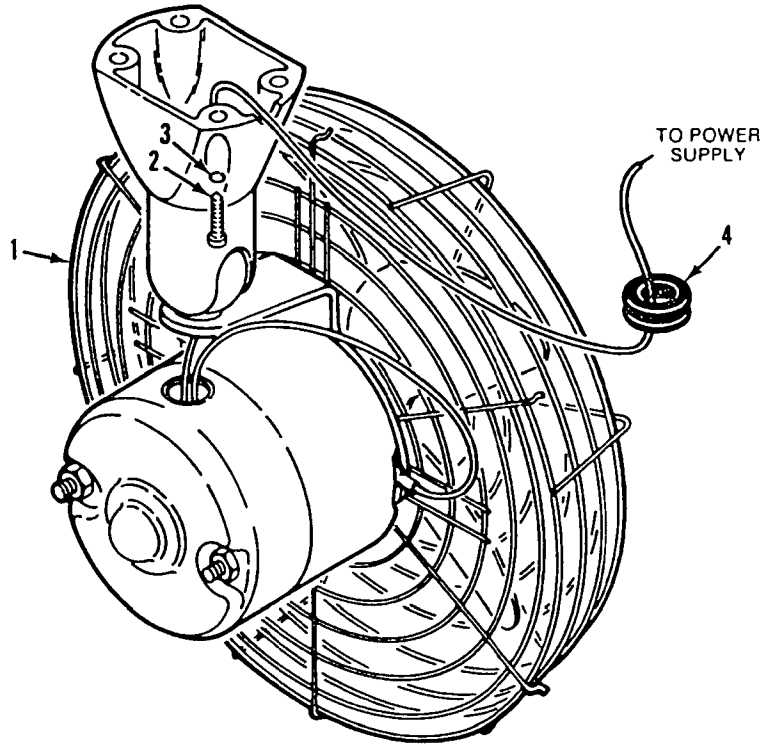
REF. NO.	PART NUMBER	QUANTITY REQUIRED	DESCRIPTION OF PART	VENDORS PART NO.		
10	70846	4	WASHER			
21	77773	2	ROLLER, Rear house (15-1/2" O.D.)			
20	73105	4	BUSHING			
<p><u>NOTE 1:</u> Mach. w/roller bearing front house rollers, delete assembly 181430 or 181428 and see separate assembly 190602 for standard size rollers or 181013 for over-size rollers.</p>						
				<table border="1"> <tr> <td>REV. I</td> <td>50447 - 2</td> </tr> </table>	REV. I	50447 - 2
REV. I	50447 - 2					

PLEASE GIVE MACHINE S/N W/ORDER

CPT

Run as a Front

50447 I1 Cc



142932A1

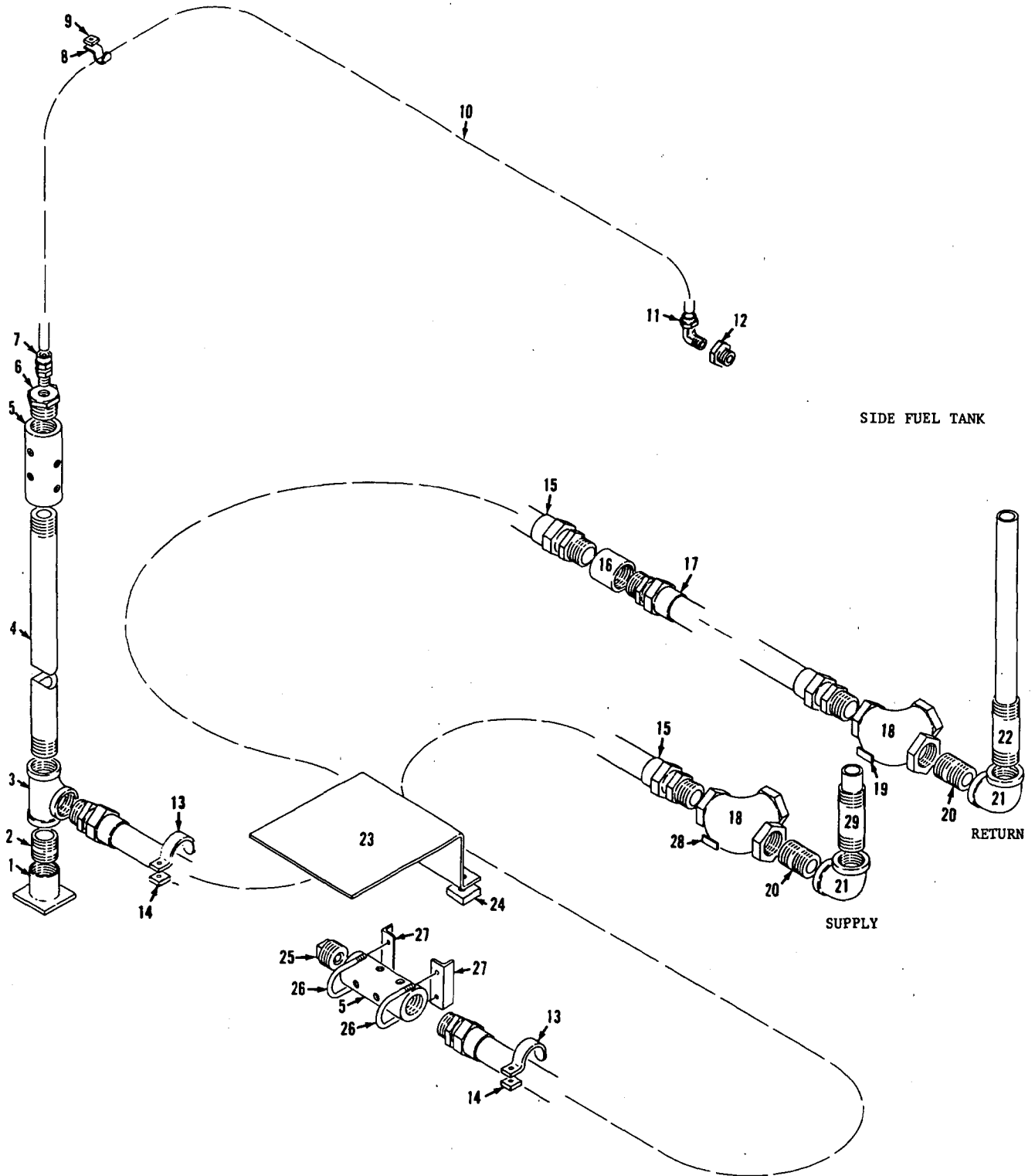
MATERIAL LIST ON BACK

DEFOGGING FAN

MANITOWOC ENGINEERING CO.

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1903298

MATERIAL LIST ON BACK

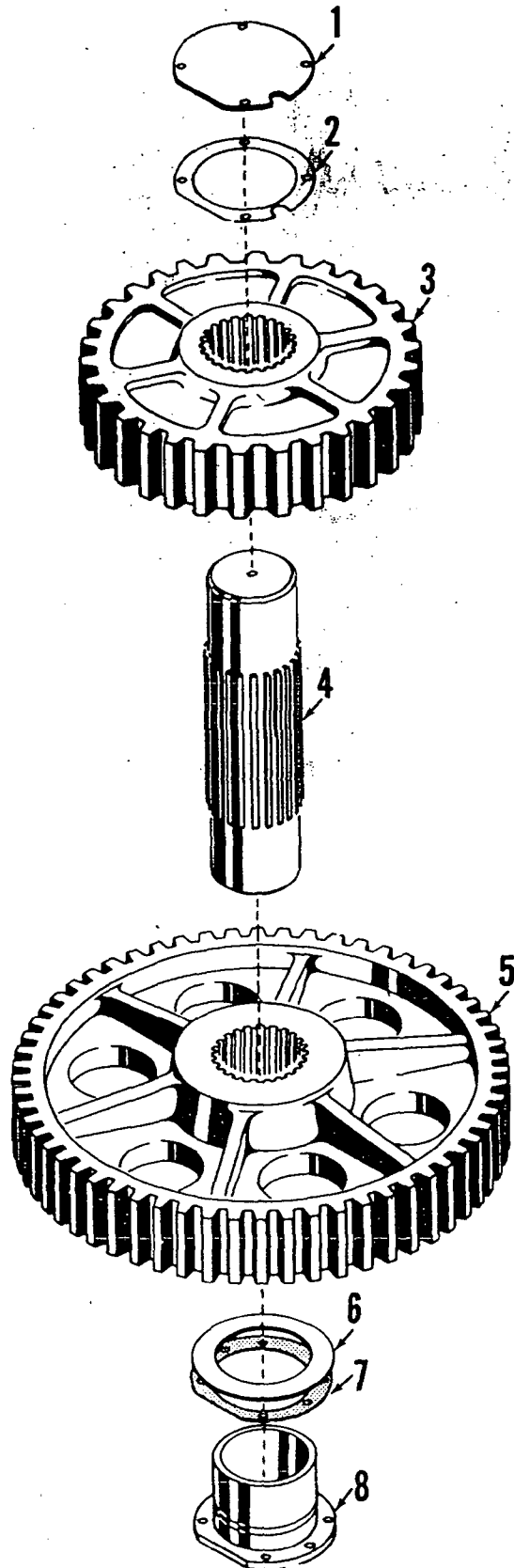
Fuel Piping

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MASTER



ILLUST. No. 21629-B-1

MATERIAL LIST ON BACK

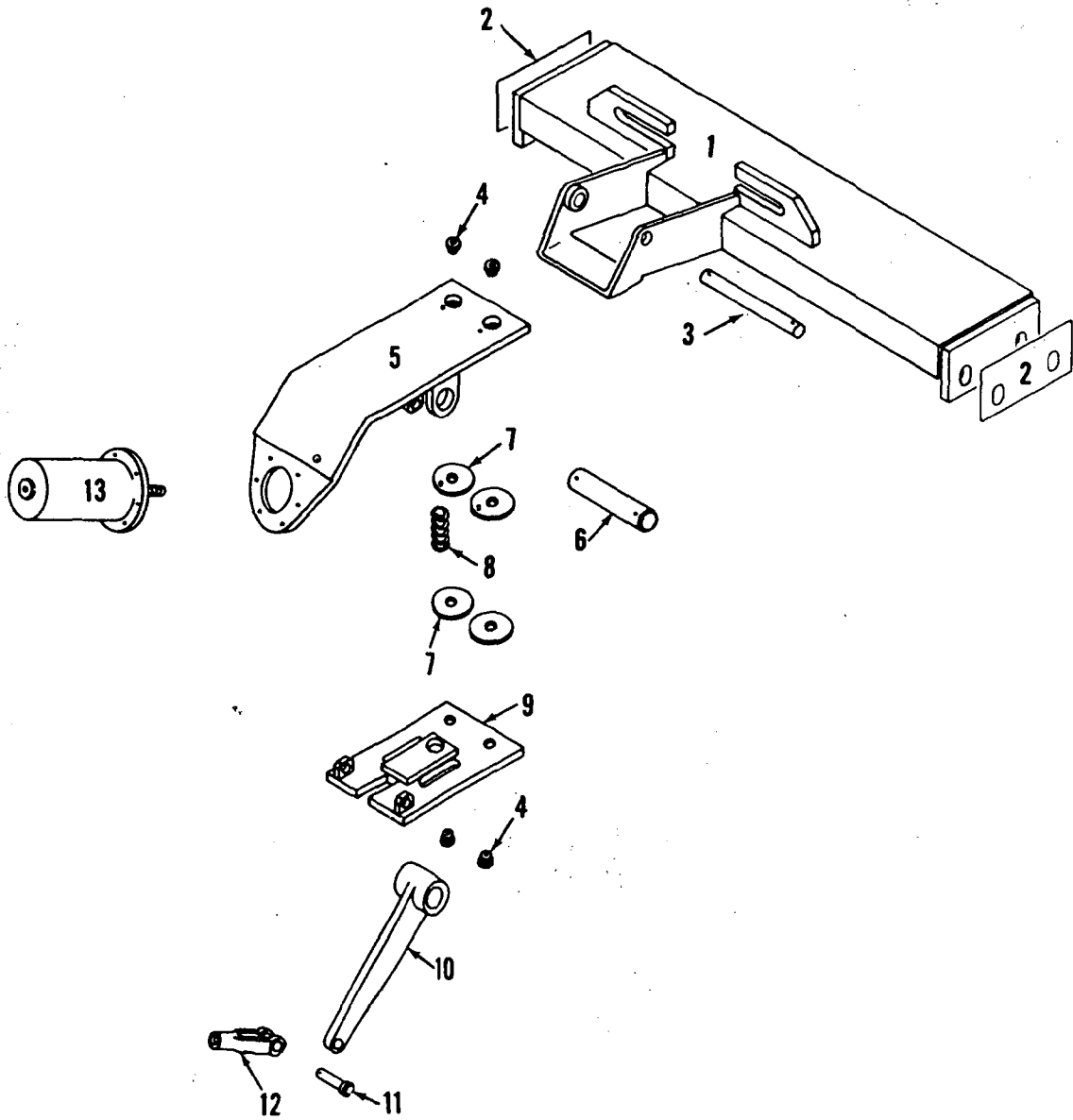
SWING SHAFT ASSEMBLY - INTERMEDIATE

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MASTER

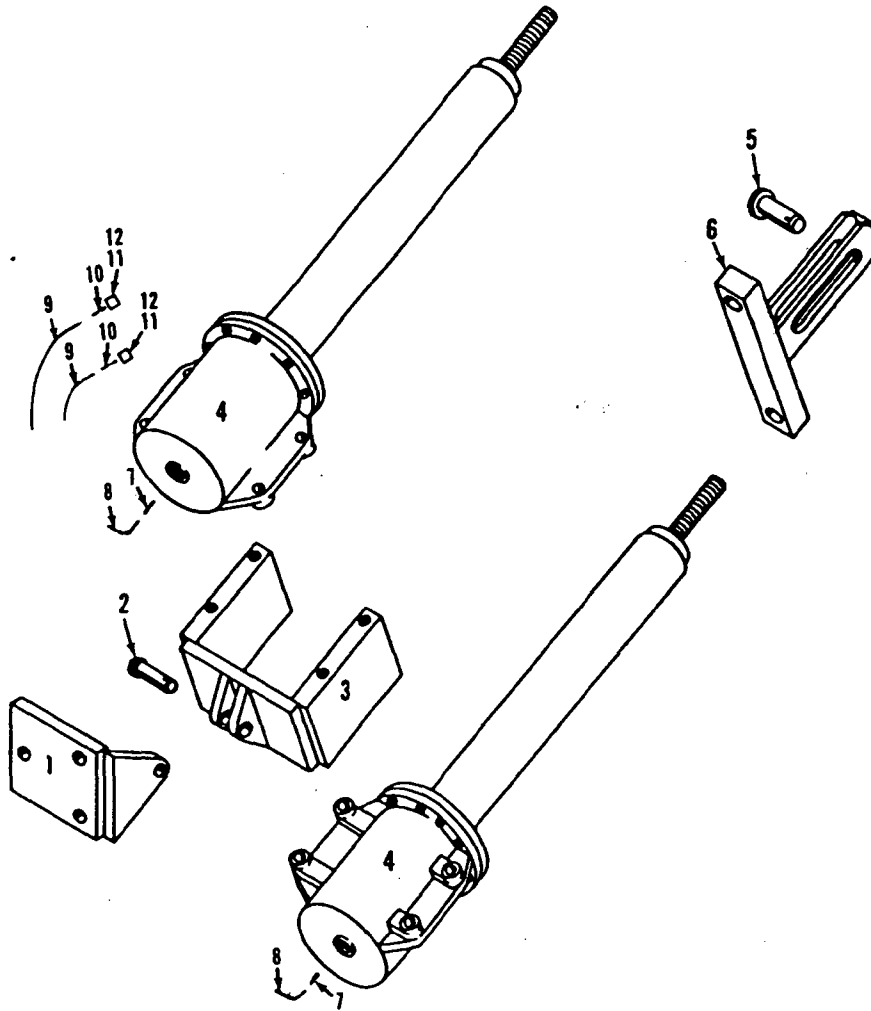


3309981

MATERIAL LIST ON BACK

AUXILIARY MAST HOIST BRAKE ASSEMBLY

MASTER



42768B1

MATERIAL LIST ON BACK

FRONT DRUM PARKING BRAKE CONTROL

43205-1 Cont.	REV. K	MODEL 4600
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LEFT FRONT DRUM BRAKE
(MACH. W/99 TOOTH FRONT DRUM GEAR)

MASLER

REF. NO.	PART NUMBER	QUANTITY REQUIRED	DESCRIPTION OF PART	VENDORS PART NO.
43	429365	1	CONNECTOR (3/16" x 1/8")	
44	70656	1	SUPPORT, Grease Line	
45	429000	1	FITTING, Grease (1/8")	
46	146478	1	PAD, Mounting (Use W/Part #97840 Only) (See Note 4) NOTE 1: Part #90311 used prior to design change of 12-9-65. Part #91417 used after design change of 8-25-66. Between design changes of 12-9-65 and 8-25-66 the anchor bracket was an integral part of the rotating bed. NOTE 2: Machines or bands shipped after November 6, 1970 must use Ref. #38, washer #709960 to align connecting link, Ref. #14. Machines or bands shipped prior to this date do <u>not</u> use this washer. NOTE 3: Bracket #93134 used prior to design change of October 25, 1978. NOTE 4: Prior to design change of Aug. 8, 1979, the following were used -	
31A	90079	1	BRACKET, Guide w/capscrews and lockwashers (Lift, Drag)	
46A	139540	1	PAD, Mounting	
			#0-71, 182455	
				REV. K 43205 - 1

PLEASE GIVE MACHINE S/N W/ORDER

49295-1Cont.	REV. E	MODEL 4600
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LUBRICATION PIPING
(DUAL G.M. ENGINES)

REF. NO.	PART NUMBER	QUANTITY REQUIRED	DESCRIPTION OF PART	VENDORS PART NO.
41	16298	1	HOSE, Flex (1" I.D. 3'8" or 1.1176 m long) (See note)	
42	219977	1	BAR (½" x 1" x 6")	
43	667081	1	STRAP, Pipe (½")	
44	406688	1	ELBOW, 45° (1") (See note)	
45	17557	1	HOSE, Flex (1" I.D. 8'10" or 2.6924 m long)	
46	679305	1	TEE (1")	
47	543406	2	NIPPLE, Close (1")	
48	543408	1	NIPPLE, Close (1½")	
49	406959	2	ELBOW (1½")	
50	71911	2	ADAPTER, Hose (1½" NPT 1-3/4" I.D. hose)	
51	345338	2	CLAMP, Hose (#28 1-5/16" - 2½")	
52	485694	1	HOSE, Radiator (1-3/4" I.D. - specify length)	
53	543220	1	NIPPLE (1½" - 24-3/4")	
54	431331	1	FLANGE, Welding (1½") (Weld at Assembly)	
56	543442	1	NIPPLE (½" x 1½")	
57	571705	1	PLUG, Pipe (1")	
<u>MACHINE WITH FLOW INDICATOR</u>				
60	288757	1	BUSHING (1" x 3/4")	
61	543405	1	NIPPLE, Close (3/4")	
62	489442	1	INDICATOR, Flow	
63	288753	1	BUSHING (3/4" x 1/2")	
<p><u>NOTE 1:</u> Oil line parts from sump to pump are illustrated and itemized as passing through rotating bed on right side. When sump is turned 180° and line passes through left side of rotating bed, delete Ref. No. 41 (hose 16298) and replace with flex hose 17556 (1" I.D. 8'1" or 2.4638 m long) and delete Ref. No. 44 (elbow 406688) and replace with 1" coupling 377207. Add two 1½" pipe straps 667088 and two mounting pads 219151 for securing hoses.</p> <p><u>NOTE 2:</u> For machines after design change of 3/13/81, with mounting on left side of filter, add the following:</p>				
64	138107	1	PAD, Mounting (Weld in place at assembly)	
65	147692	1	PLATE, Mounting (Weld in place at assembly)	
66	139228	1	PLATE, Instruction W/drive screws	
<p>0-340 (1-19-71 and on) 0-407 (9-19-70 and 11-9-70) 0-340 or 0-407</p>				

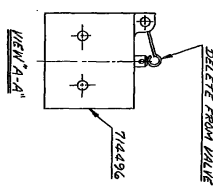
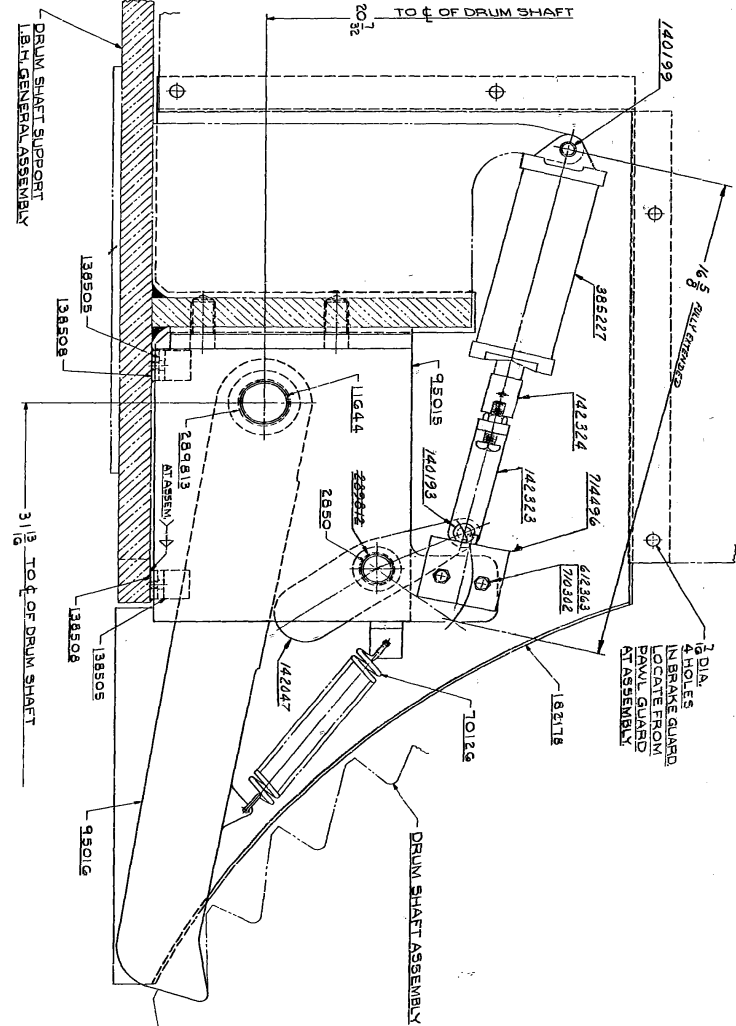
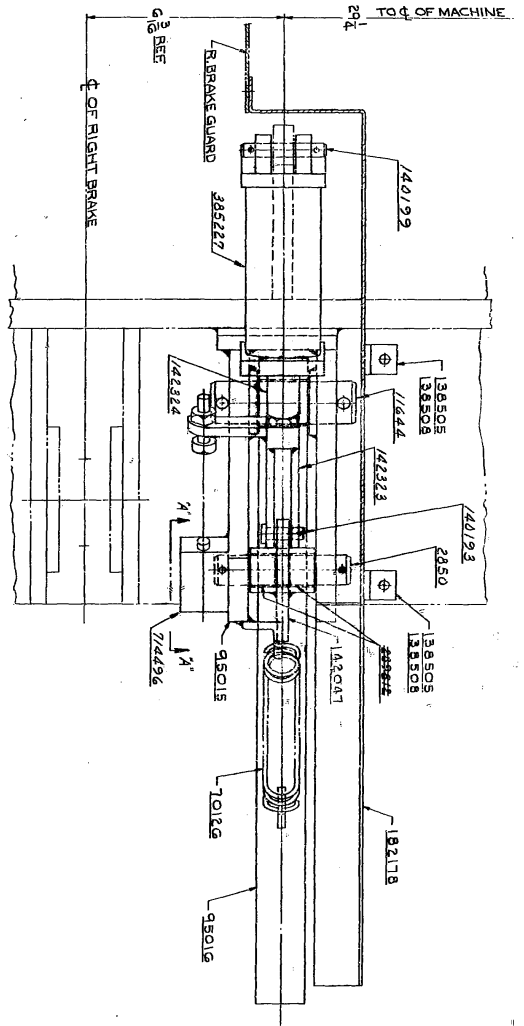
PLEASE GIVE MACHINE S/N W/ORDER

REV. E	49295 - 1
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Run as Front

MASTER

49295-1 Cont'd.



BILL OF MATERIAL

QTY	DESCRIPTION	UNIT	MATERIAL	REV. NO.	REVISIONS
1	PIN		2850		
1	PIN		11644		
1	SPRING		70125		
1	SUPPORT		95015		
1	PAWL		95016		
2	CLIP		138505		
2	MOUNTING PAD		138508		
1	GUARD		182118		
1	CAM		142041		
1	BUSHING		281813		
1	WASHER		988888		
1	WASHER		140193		
1	WASHER		140199		
1	ROD END		142323		
1	SPACER		142324		
1	PAWL CYLINDER		385227		
2	WASHER		612343		
2	WASHER		74496		
1	WASHER		74496		

NOTE 1
DO NOT GRIND OR REWORK BORES OF BUSHINGS.

NOTE 2
FOR AIR SCHEMATIC DRAWING SEE 3107 SHEET A1

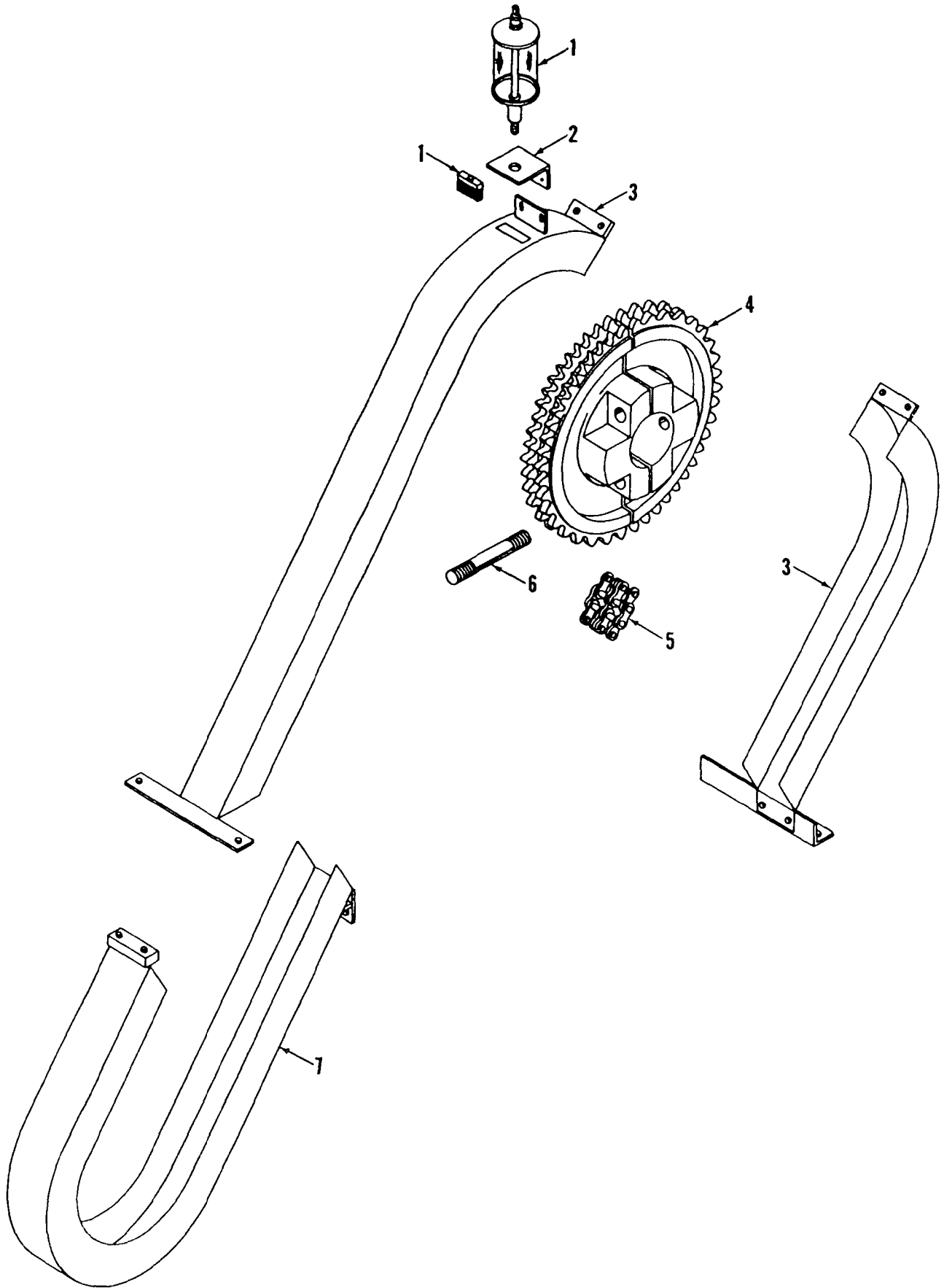
NOTE 3
THIS ASSEMBLY IS EQUIPPED WITH CORROSION RESISTANT PINS.

FORMERLY WAS 48844

REV. NO.	DATE	BY	APP. NO.
4	12-7-73		
3			
2			
1			

MANITOWOC ENGINEERING CO.
RATCHETT PAWL ASSEMBLY
FOR IND. BOOM HOIST
WITH HYDROSTATIC POWER
DOOR LOWERING

4-9944-2

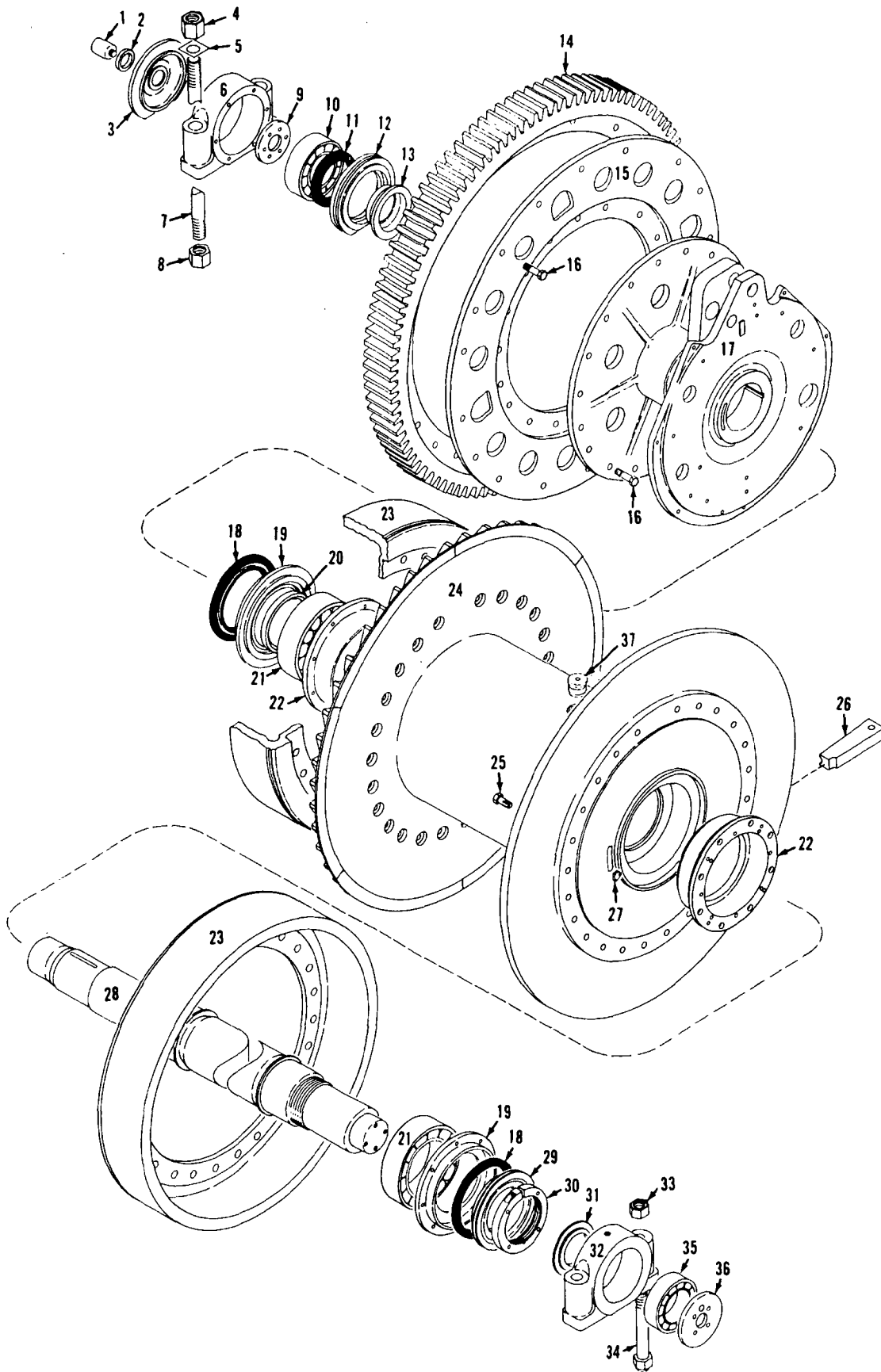


MASTER

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MASTER

DRUM SHAFT

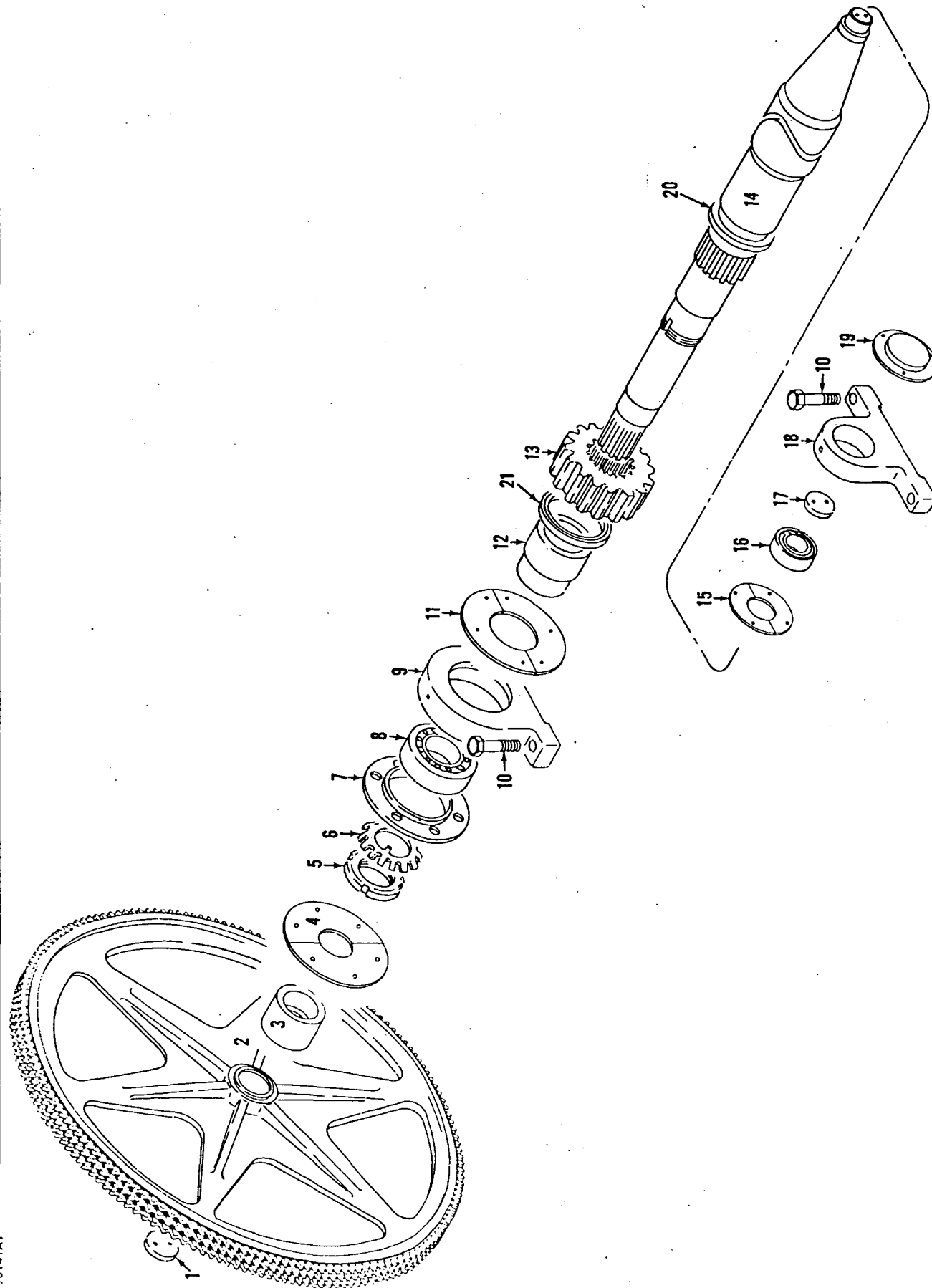
6521381

MATERIAL LIST ON BACK

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93141A1

MATERIAL LIST ON BACK

IND. BOOM HOIST COUNTERSHAFT

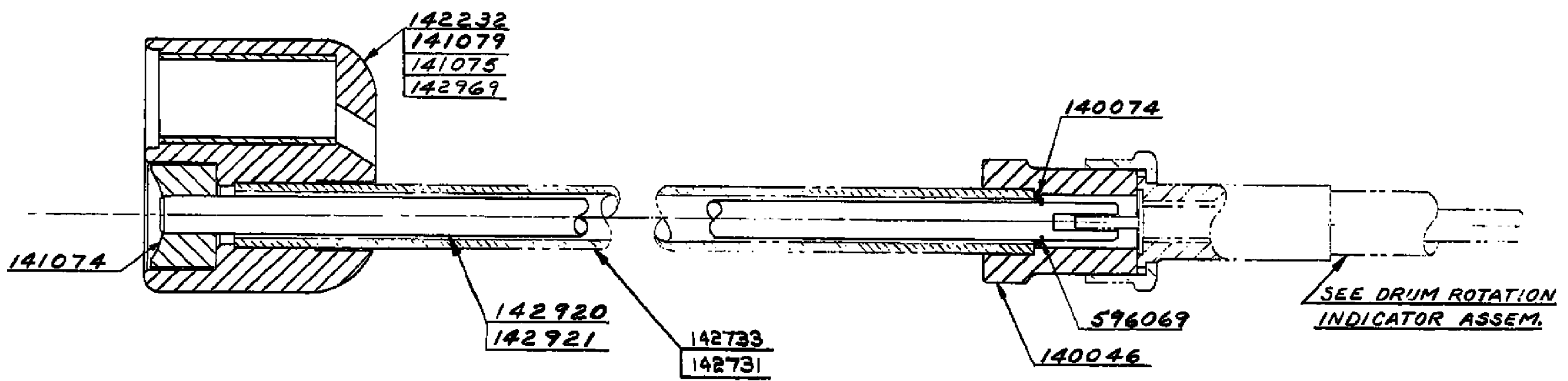
43141A1

BILL OF MATERIAL							ASSEMBLIES USED ON	
ITEM NO.	NO. REQ'D	SECTION	DESCRIPTION	LENGTH		MATERIAL	CODE NO. OR DWG. NO.	REMARKS
				FT.	IN.			

181748
65588
65336

NO. REQ'D	DWG. NO.	DESCRIPTION
1	140046	ADAPTOR
1	140074	RETAINING RING
1	141074	KNOB
1	141079	KNOB (IND. BOOM HOIST CONTROL)
1	142232	KNOB (FOR DRUM CONTROL) <small>W/POWER LOWERING</small>
1	142920	SHAFT (FOR DRUM CONTROL)
1	142921	SHAFT (IND. BOOM HOIST CONTROL)
1	596069	SNAP RING
1	141075	KNOB (FRT. DRUM W/O POWER LOWERING)
Ⓐ 1	142969	KNOB (REAR OR RT. REAR OR LEFT REAR, OR ROOF DRUMS W/O POWER LOWERING)
Ⓑ 1	142731	HANDLE - FOR BOOM HOIST CONTROL
Ⓒ 1	142733	HANDLE - FOR DRUM CONTROL

REVISIONS
3-3-77 J.C.S.
Ⓐ WAS REAR DRUM W/O POWER LOWERING
Ⓑ Ⓒ ADDED

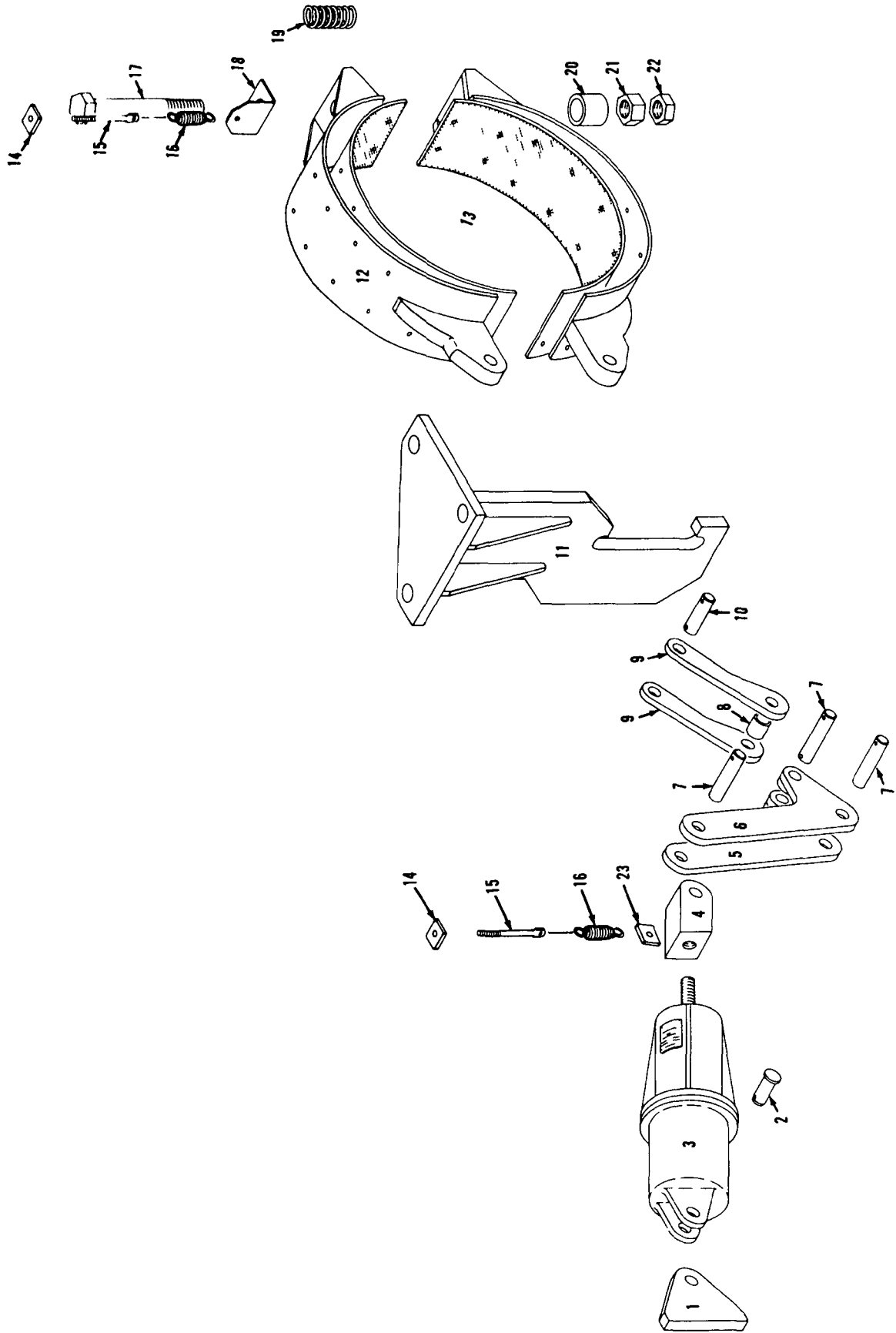


SCALE 12"-1"=1'	DWG. NO. 95451
DR. LPW	
CHK. CUH	
APP.	

MANITOWOC ENGINEERING CO. MANITOWOC, WISCONSIN
MODEL SC-240, 4100 W
4600 SERIES 143

HAND LEVER ASSEM. FOR DRUM ROTATION INDICATOR (MECHANICAL DRIVE)
--

DATE 3-13-75
PATTERN NO.
CODE NO.
DWG. NO. 95451



19241481

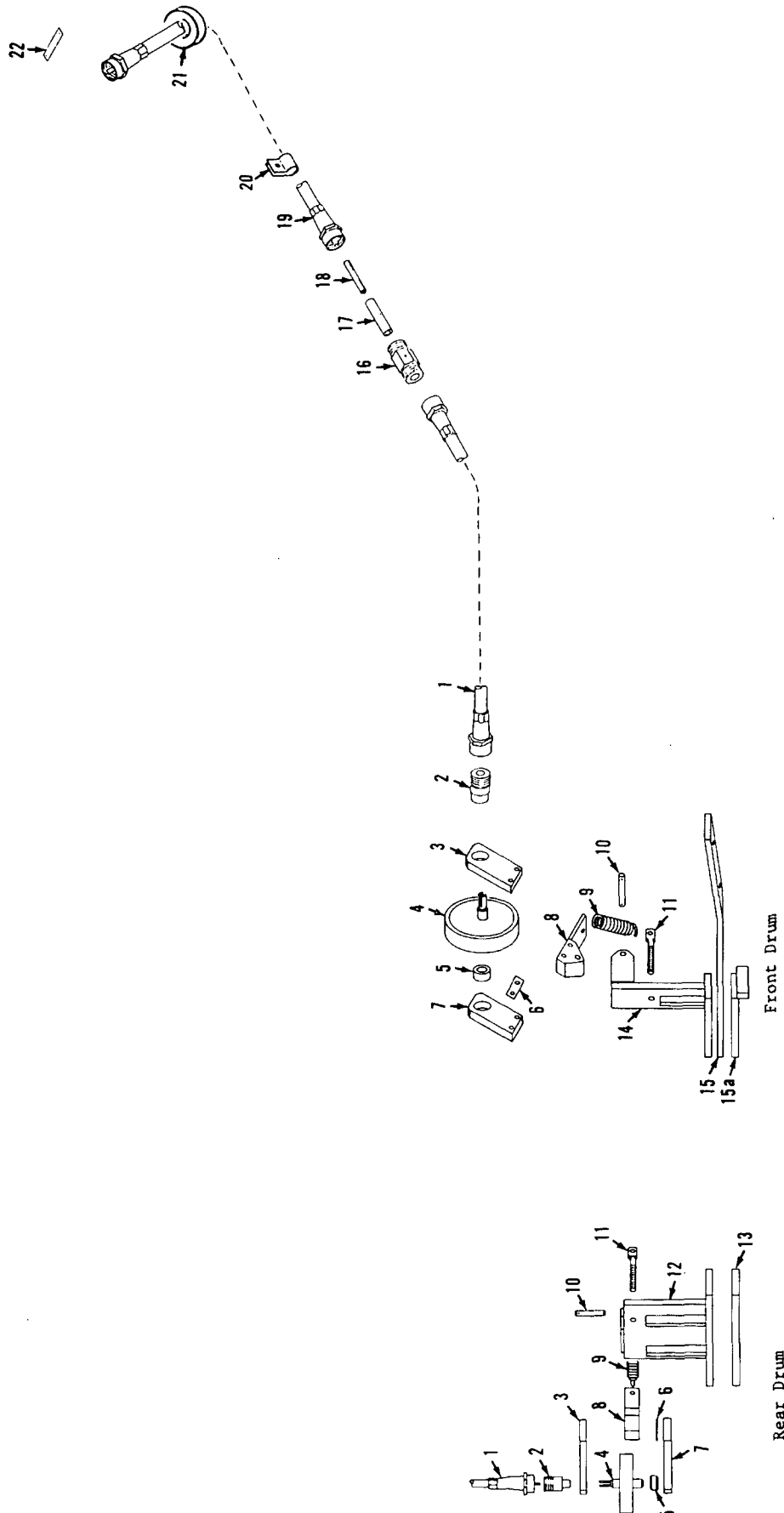
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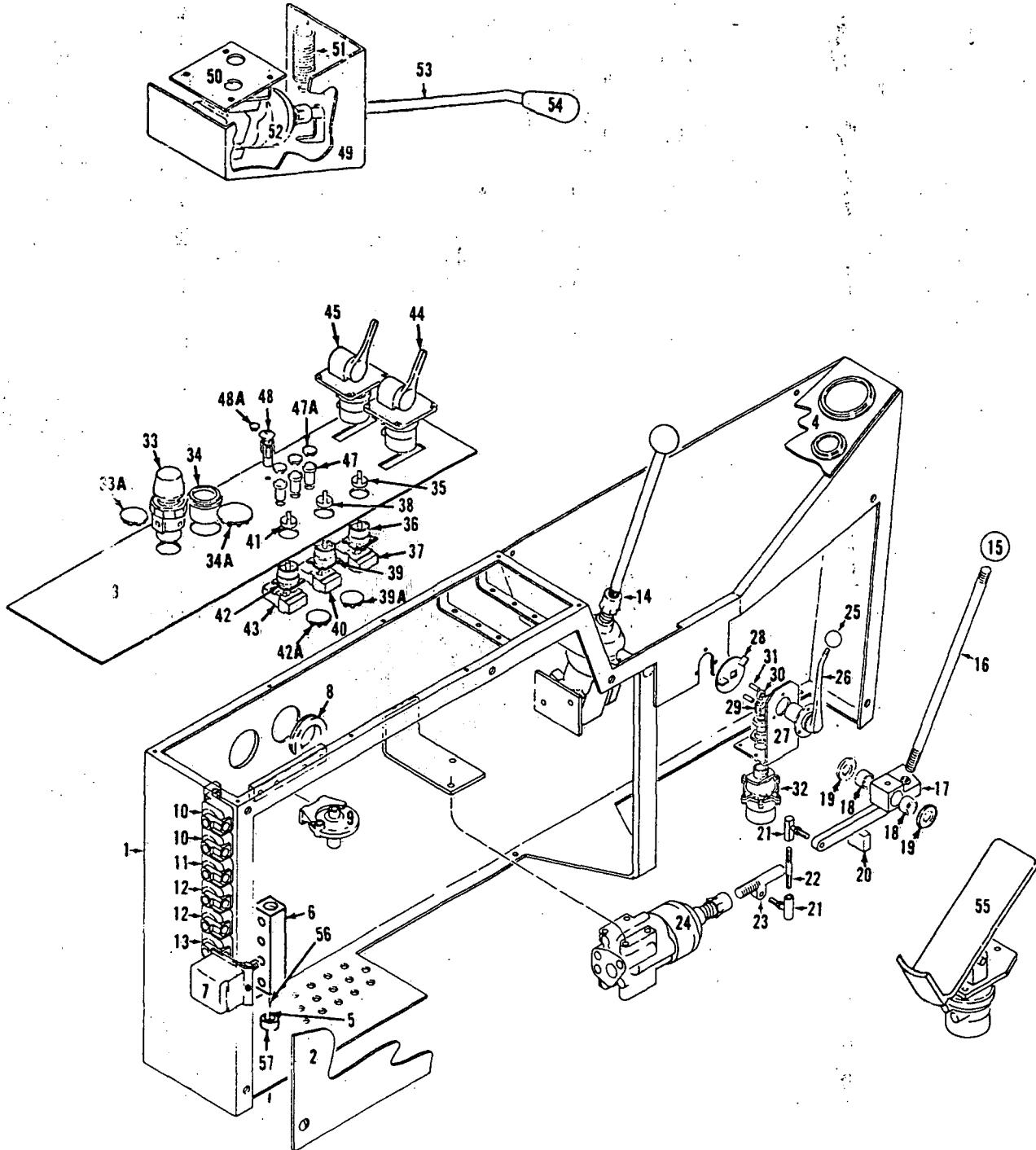
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MATERIAL LIST ON BACK

Drum Rotation Indicator



65337C1

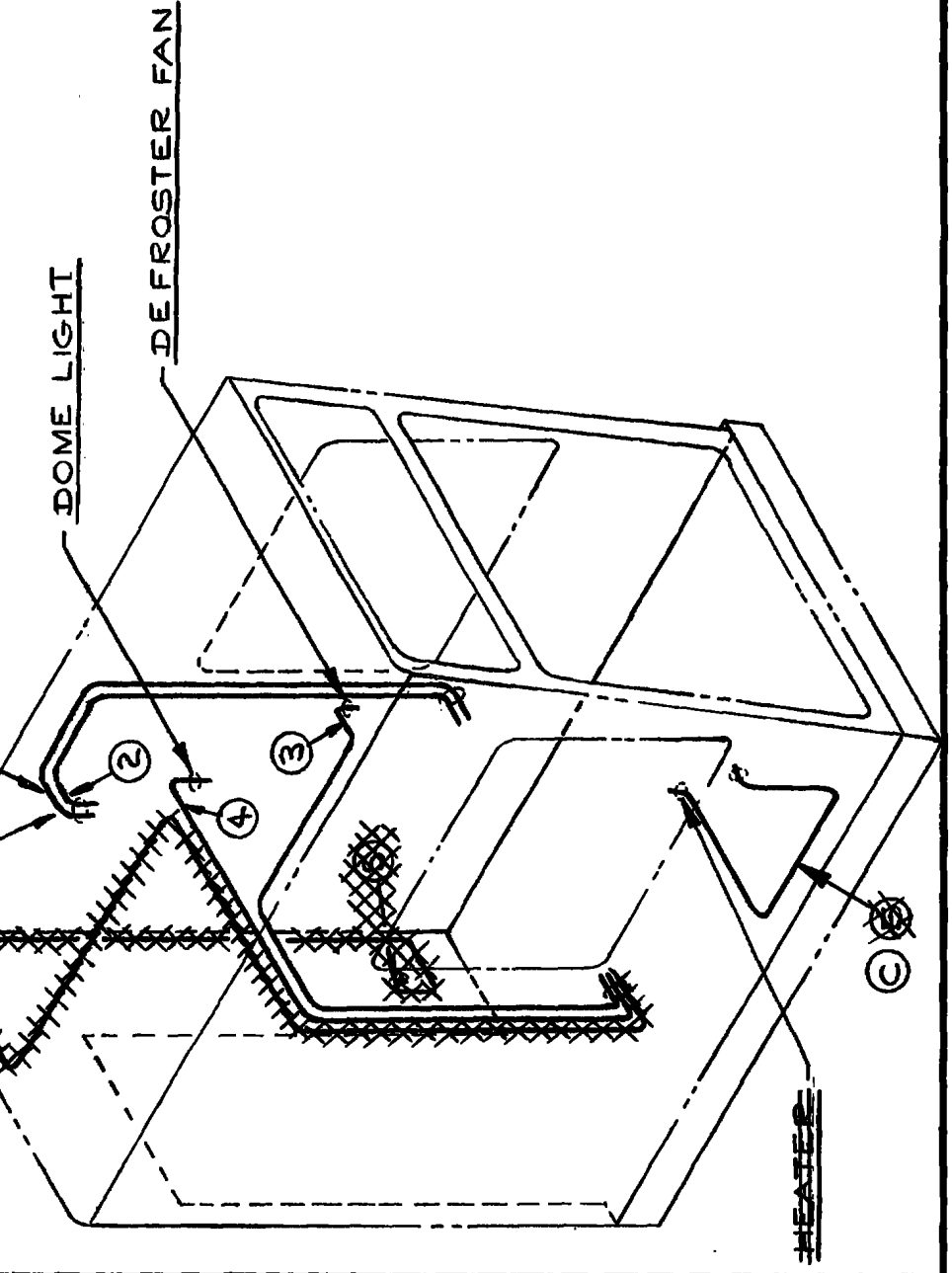
MATERIAL LIST ON BACK

LEFT CONTROL CONSOLE

DWG. NO. 142811	CAB SUB ASSEMBLY	SCALE NONE	MANITOWOC ENGINEERING CO. MANITOWOC, WISCONSIN	DATE 3-10-75
CODE NO. <i>[Handwritten mark]</i>	ELEC. & AIR LINE LOCATION (IN PILOT HOUSE WALLS)	DR. DS GK.CWH	MATERIAL <i>[Handwritten mark]</i>	REVISIONS
PATTERN NO.	MODEL SC-240, 4100 SERIES 1, 2, & 3	APP.		1-6-77 JAH A WAS 16-2 CONDUCTOR CABLE, 371829
				B -1-77 -J.W.S. LG. WAS 27 FT. C ITEM 5 RELOCATED
				D 5-18-77 J.C.S. DELETED

- READ.
- ① 1- 3/8" TUBING 9 FT. LG.
 - ② 1- 3/8" TUBING 9 FT. LG.
 - ③ 1- 14-1 CONDUCTOR CABLE 18 FT. LG.
 - ④ 1- 14-1 CONDUCTOR CABLE 15 FT. LG.
 - ⑤ ~~1- 14-1 CONDUCTOR CABLE 2 FT. LG.~~

CODE NO.
484054
484054
371829
371829
~~371829~~



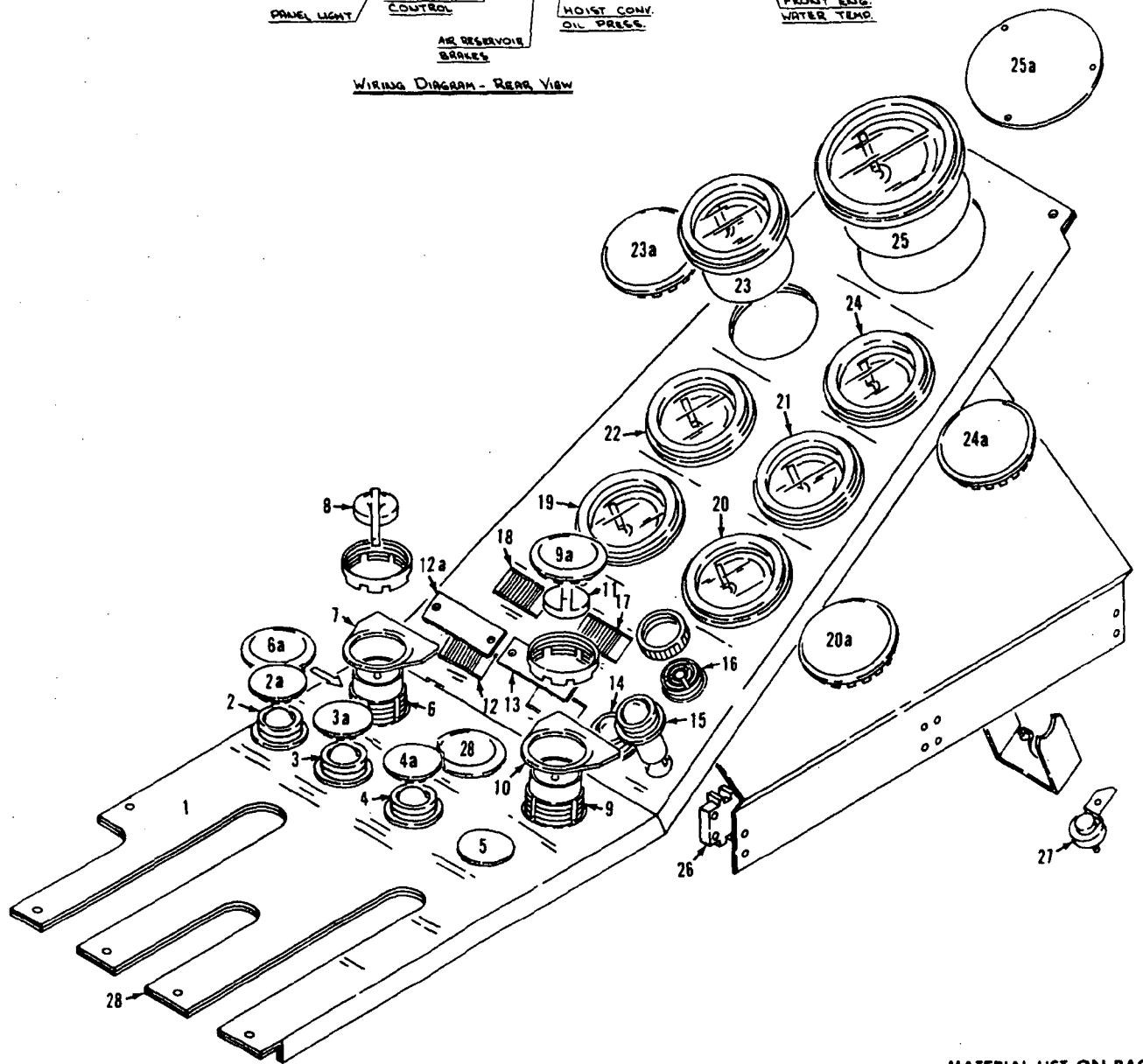
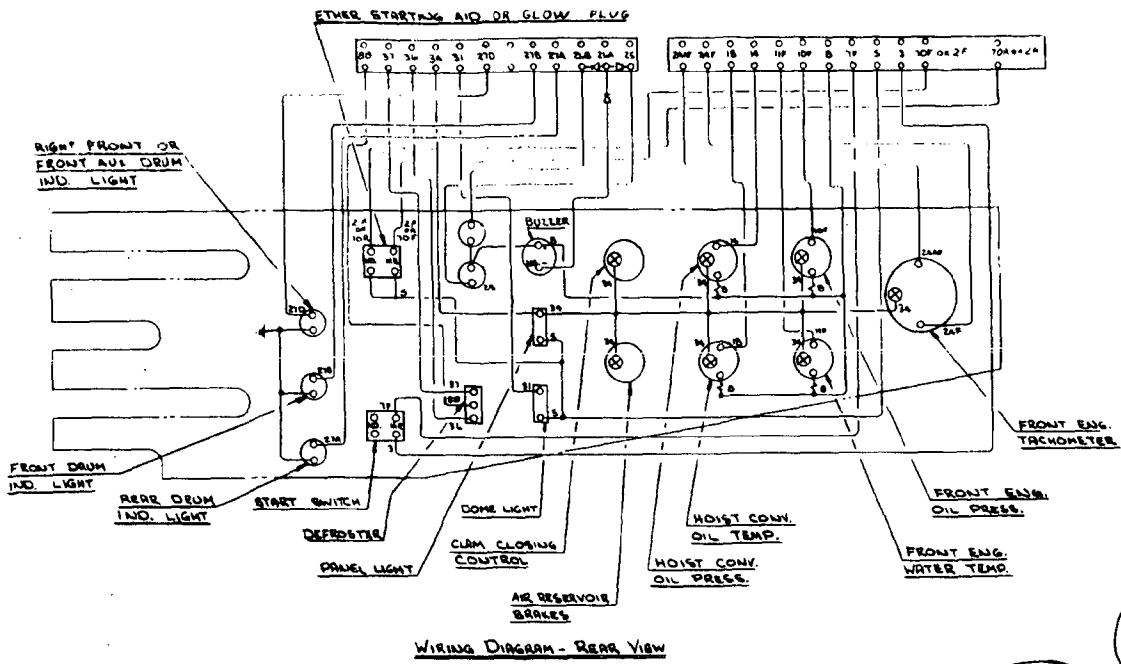
ASSEMBLIES USED ON	
65331 65349	
DWG. NO.	142811

DO NOT SCALE THIS DRAWING

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190096D1

MATERIAL LIST ON BACK

Right Instrument Panel

GROUP D - Power Components

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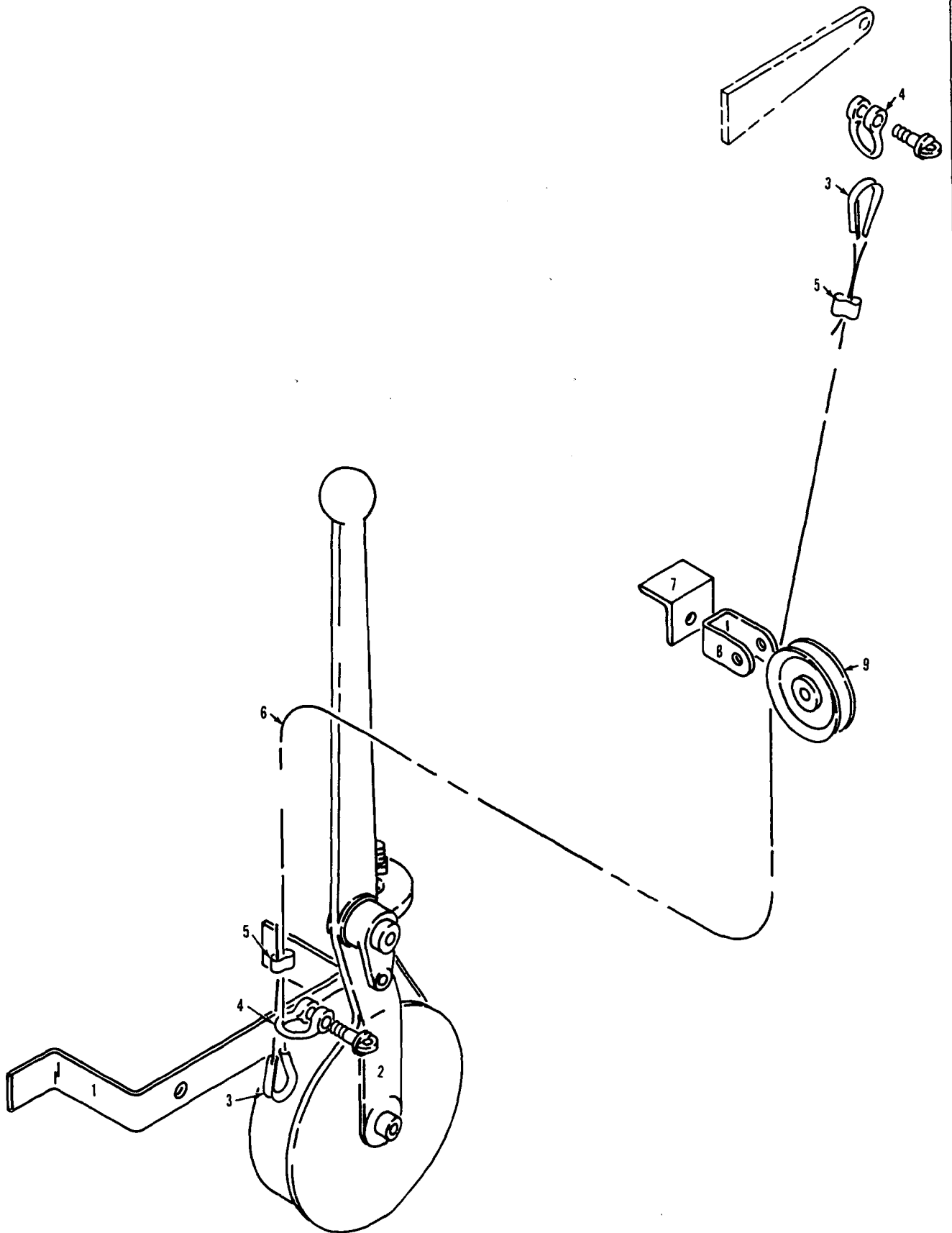
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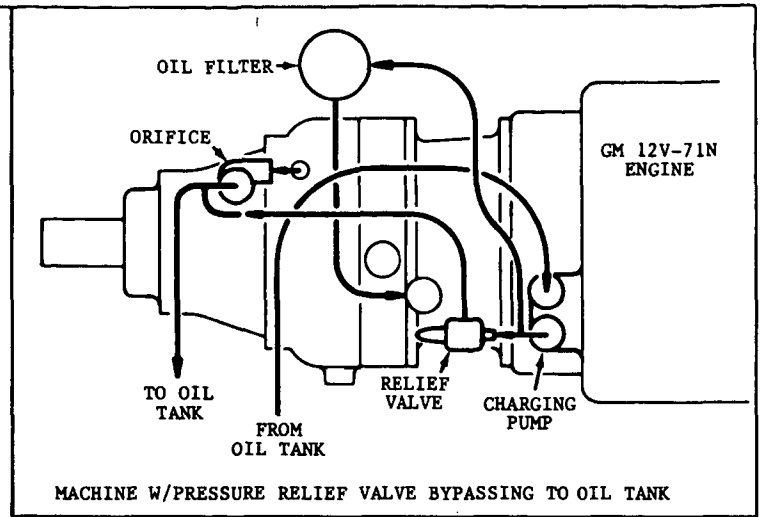
MATERIAL LIST ON BACK

Shutter Control

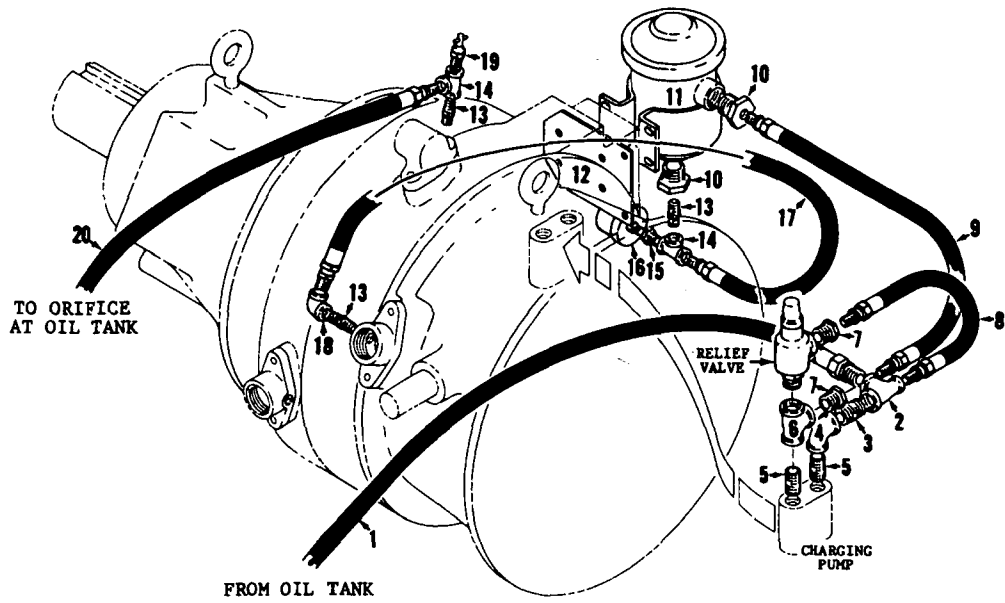
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HOIST CONVERTER



43901A3

MATERIAL LIST ON BACK

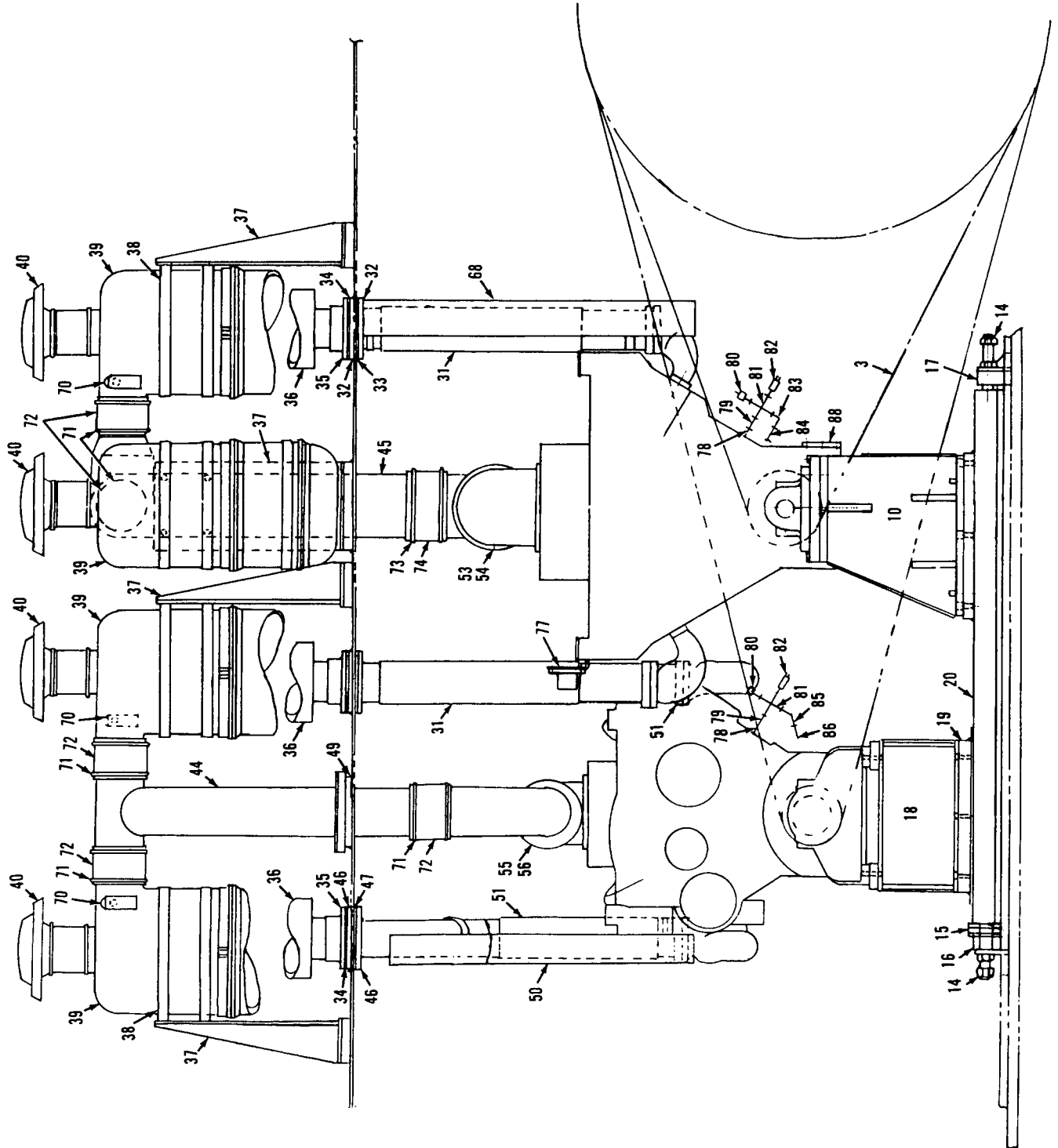
CONVERTER CHARGING PIPING

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Manitowoc, Wisconsin 54220

D1.1



50874A1.3

MATERIAL LIST ON BACK

POWER PLANT

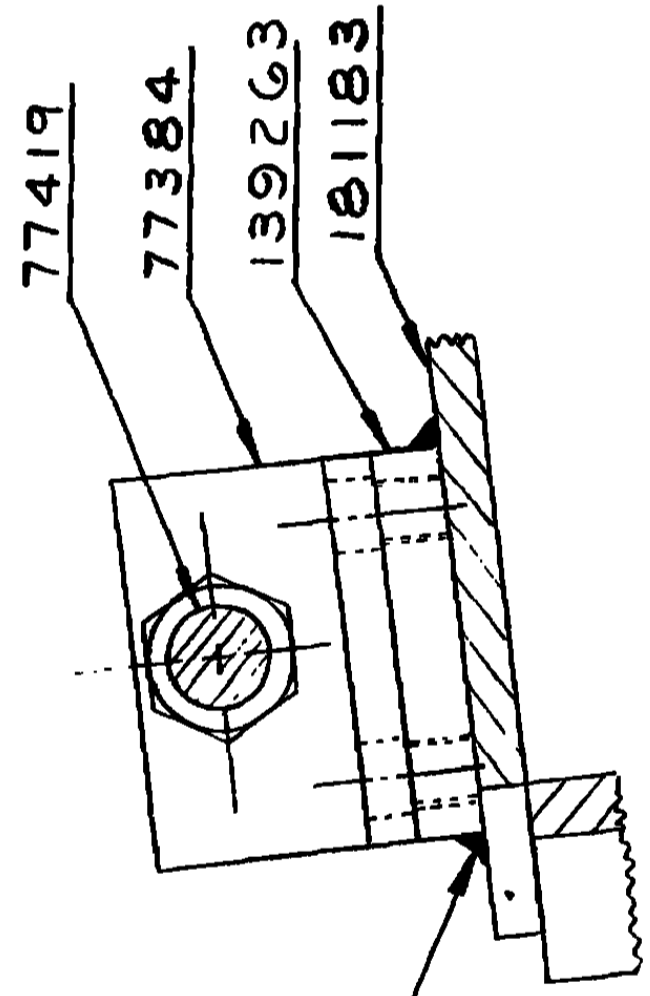
NOTE 1

FOR FIELD INSTALLATION:
 1. RELOCATE EXISTING OIL SPREADER
 AND ADD (1) EXTRA SPREADER PER
 DWG. 50377 POWER TAKE OFF CASE
 OF 4-17-70.

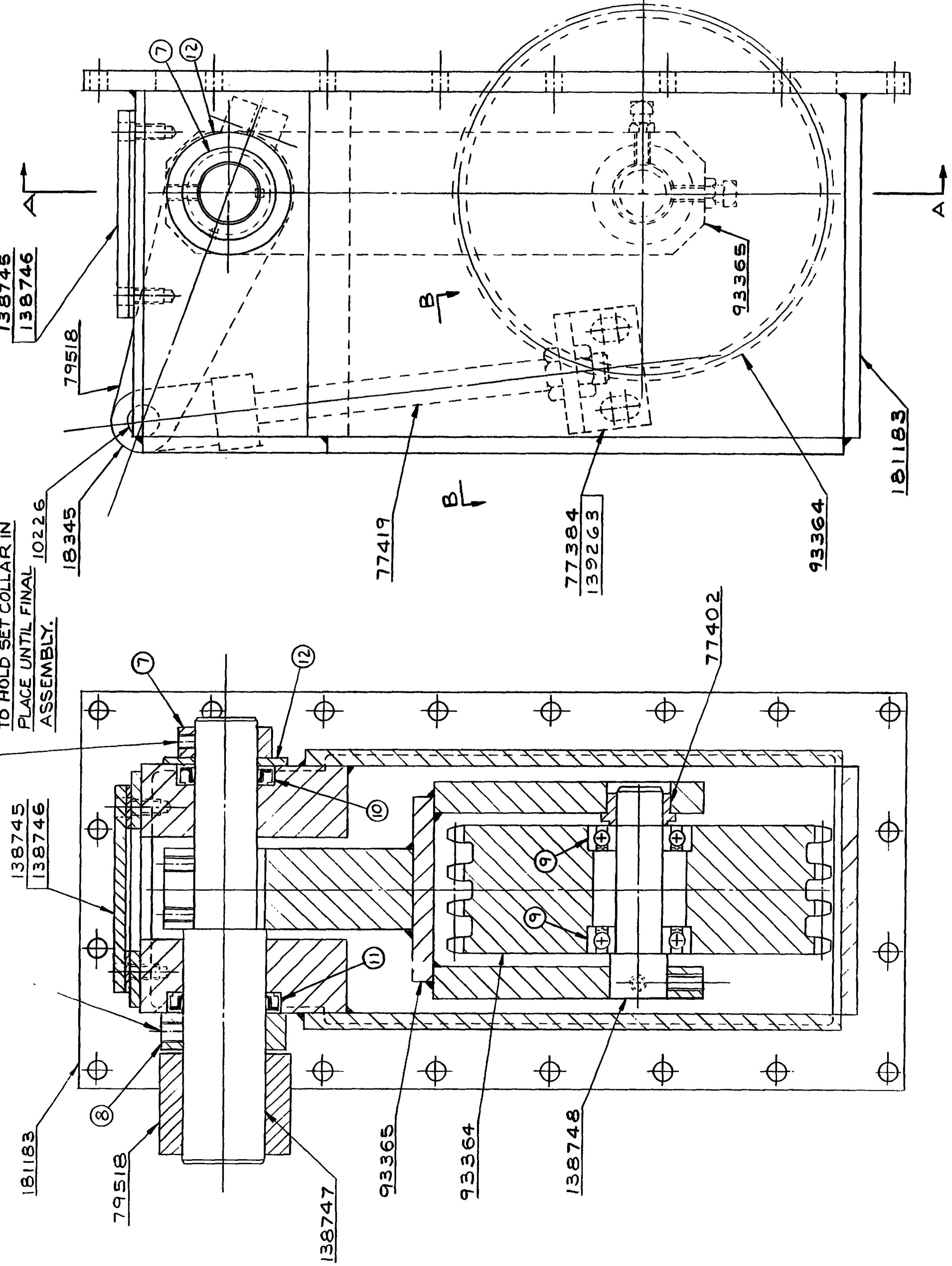
2. SEE NOTE 2 ON ASSEM. 50368 OR
 NOTE 3 ON ASSEM. 50851 AS
 APPLICABLE.

DO NOT TIGHTEN SET SCREW
 UNTIL FINAL ASSEMBLY.

LIGHTLY TIGHTEN SET
 SCREW IN SET COLLAR
 TO HOLD SET COLLAR IN
 PLACE UNTIL FINAL
 ASSEMBLY.



SECTION B-B



SECTION A-A

NO.	QTY.	DESCRIPTION	SIZE	LENGTH FT. IN.	MATERIAL	CODE NO. OR DWG. NO.	REMARKS
1							
2							
3							
4							
5							
6							
7	1	SET COLLAR	1 1/2"			358129	
8	1	SET COLLAR	2"			358128	
9	2	BEARING				224368	
10	1	OIL SEAL				622690	
11	1	OIL SEAL				622699	
12	1	1 1/2" SAE FLAT WASHER				709768	
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

NO. REQD.	DWG. NO.	DESCRIPTION
① 1	10 226	PIN
1	18 345	ROD END
① 1	77 384	BRACKET
1	139 263	MOUNTING PAD
1	77 402	SPACER
1	77 419	REACH ROD
1	79 518	LEVER
1	93 364	SPROCKET
1	93 365	BRACKET
1	138 745	COVER
1	138 746	GASKET
1	138 747	SHAFT
1	138 748	SHAFT
1	181 183	HOUSING

ASSEMBLIES USED ON: 50368, 50851

REVISED DATE: 4-16-70

DATE: 4-16-70

PATTERN NO.:

CODE NO.:

DWG. NO. 181198

NO. REQD. DWG. NO. DESCRIPTION

① 1 10 226 PIN

1 18 345 ROD END

① 1 77 384 BRACKET

1 139 263 MOUNTING PAD

1 77 402 SPACER

1 77 419 REACH ROD

1 79 518 LEVER

1 93 364 SPROCKET

1 93 365 BRACKET

1 138 745 COVER

1 138 746 GASKET

1 138 747 SHAFT

1 138 748 SHAFT

1 181 183 HOUSING

SCALE: 6:1:0

DR: JDW

CHK: L, JTP

APP:

UNLESS NOTED: FRAC. DIM. HOLE DIA. HOLE CENTERS FINISH

MANITOWOC ENGINEERING CO. MANITOWOC, WISCONSIN

MATERIAL:

CHAIN TIGHTENER

SUB-ASSEMBLY

SEE NOTE 1

MODEL: 4600 CONT. CONV. VICON

DWG. NO. 181198

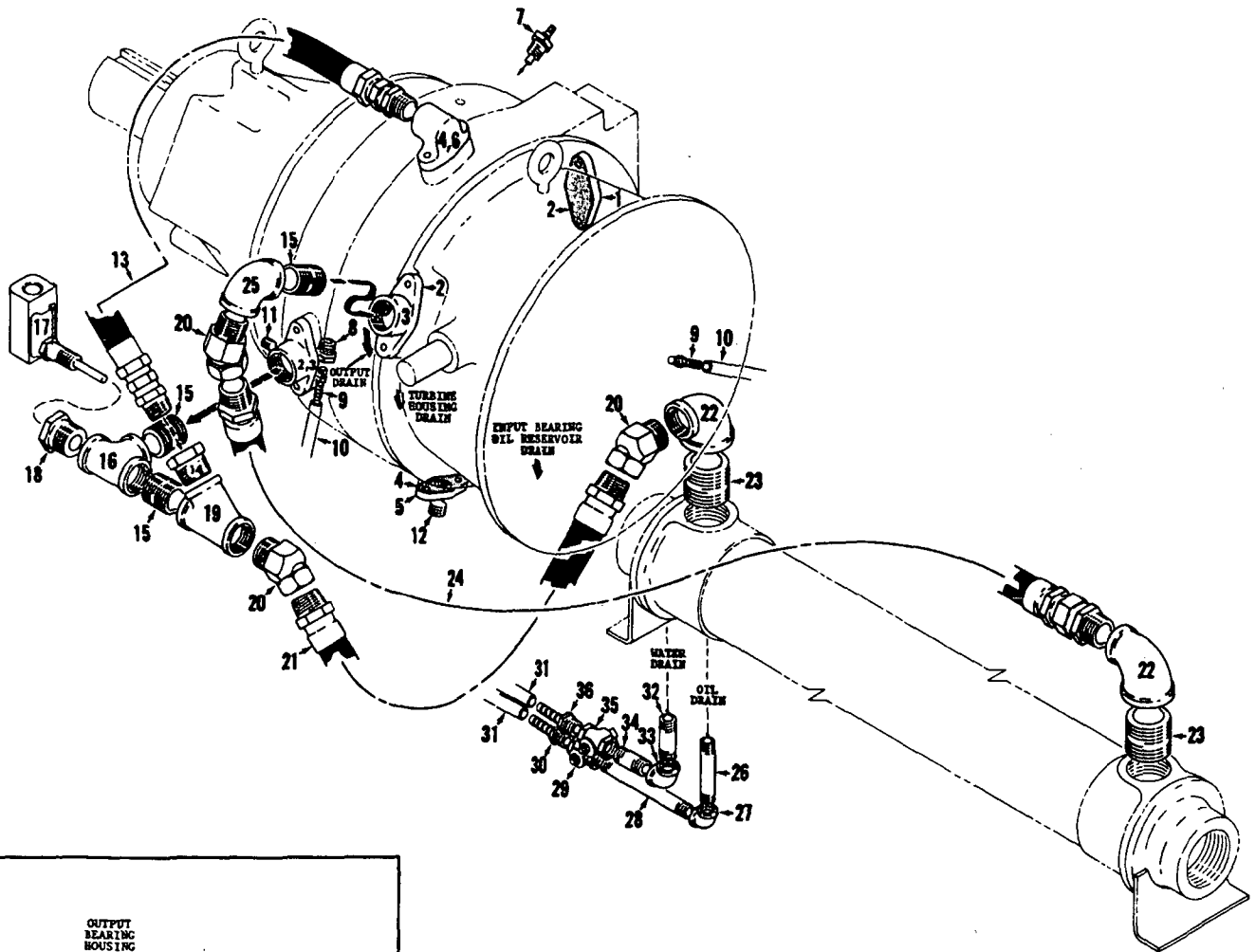
DO NOT SCALE THIS DRAWING

MANITOWOC ENGINEERING CO.

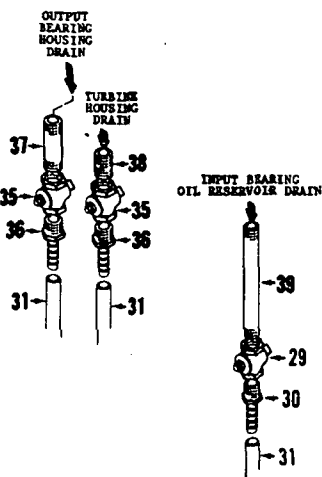
A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin

HOIST CONVERTER



HOIST HEAT EXCHANGER



CONVERTER DRAINS

183405A1

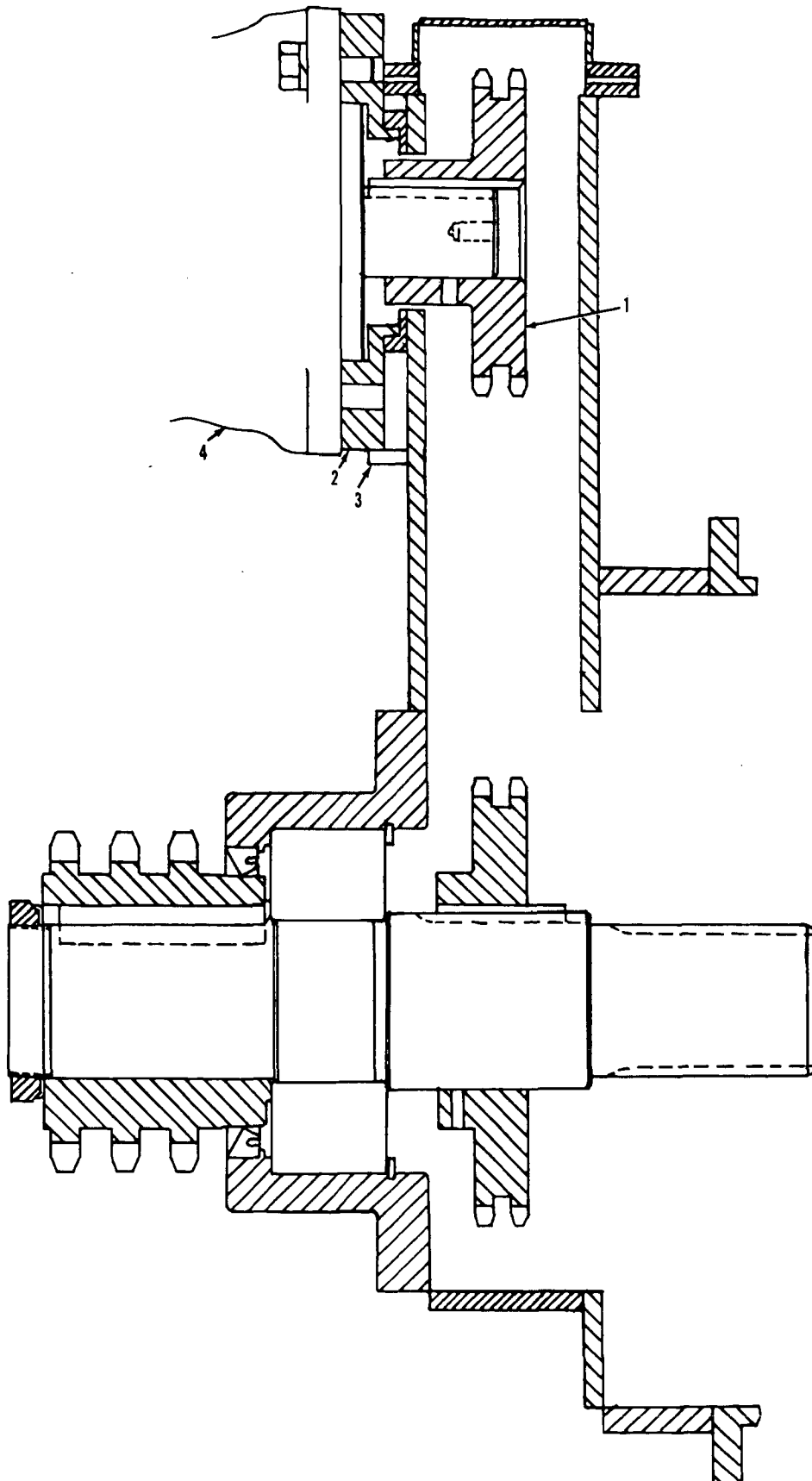
MATERIAL LIST ON BACK

HOIST CONVERTER COOLING

MANITOWOC ENGINEERING CO.

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Manitowoc, Wisconsin



419800A2

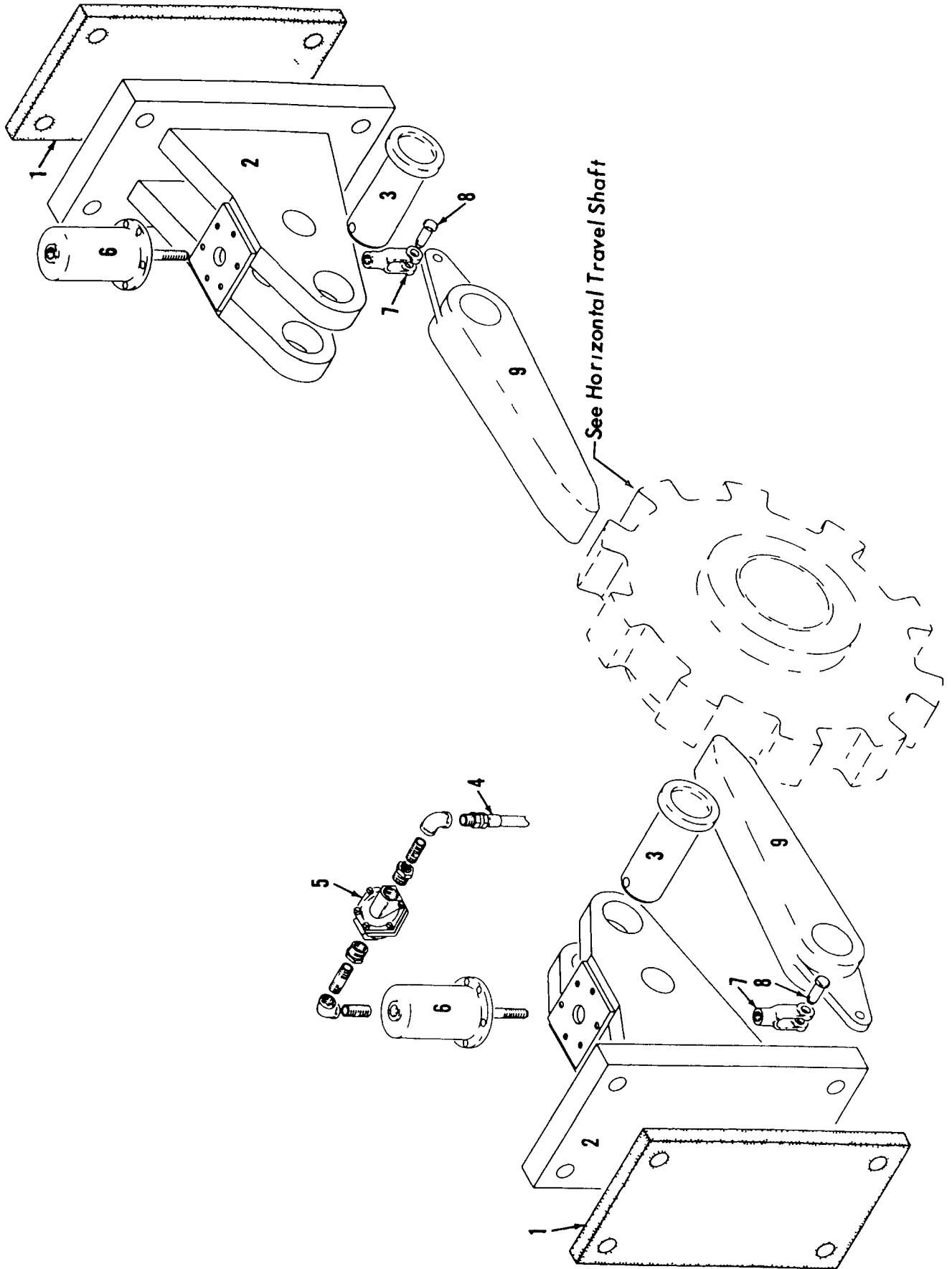
MATERIAL LIST ON BACK

BOOM HOIST DRIVE

MANITOWOC ENGINEERING CO

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See Horizontal Travel Shaft

MASTER

33048A1

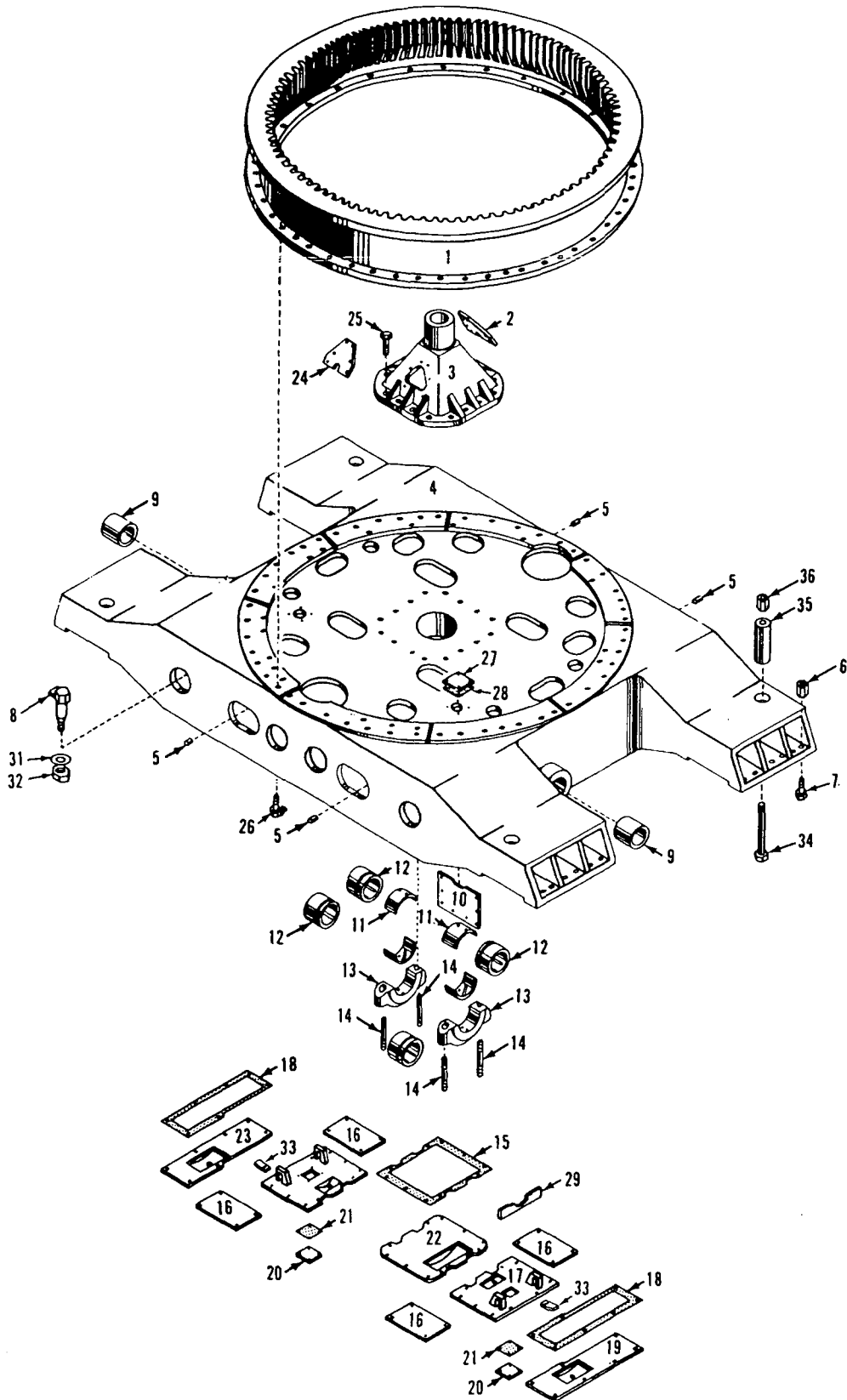
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TRAVEL LOCK

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Manitowoc, Wisconsin

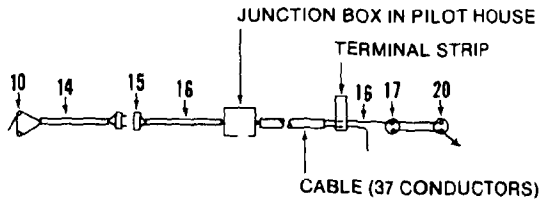


MASTER

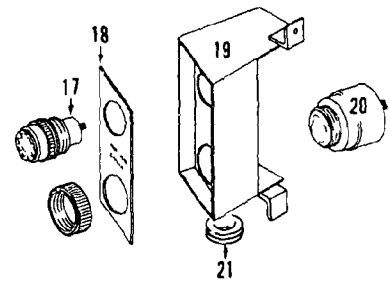
43764E1

MATERIAL LIST ON BACK

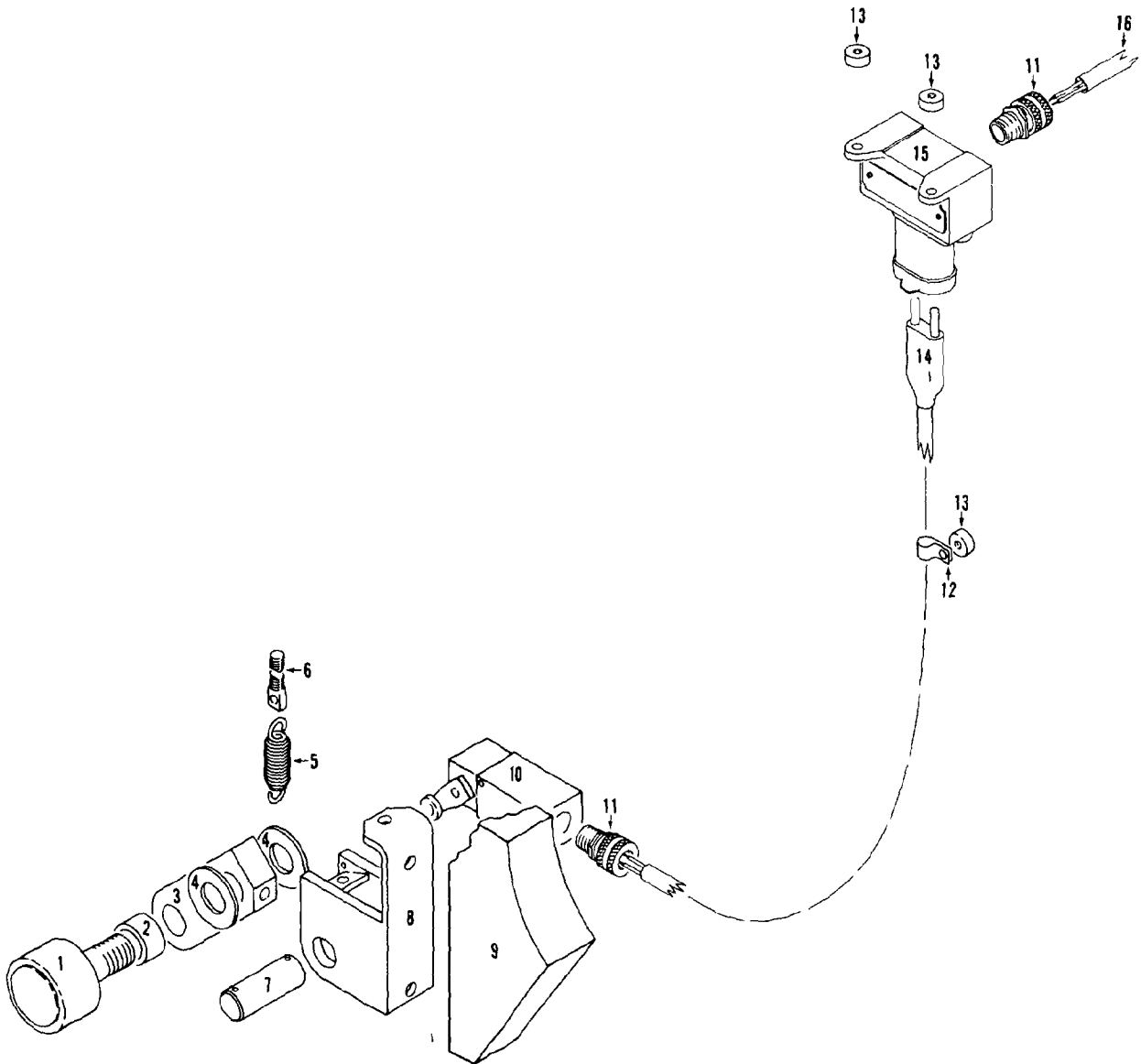
CARBODY



WIRING DIAGRAM



AT OPERATOR'S STATION



190520B1

MATERIAL LIST ON BACK

COUNTERWEIGHT LIFTING INDICATOR

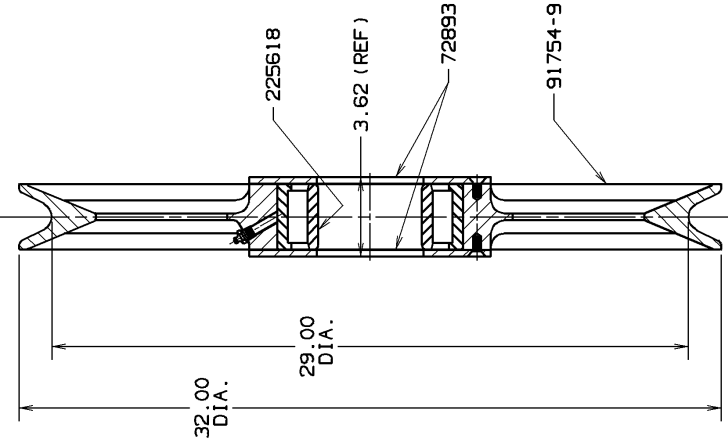
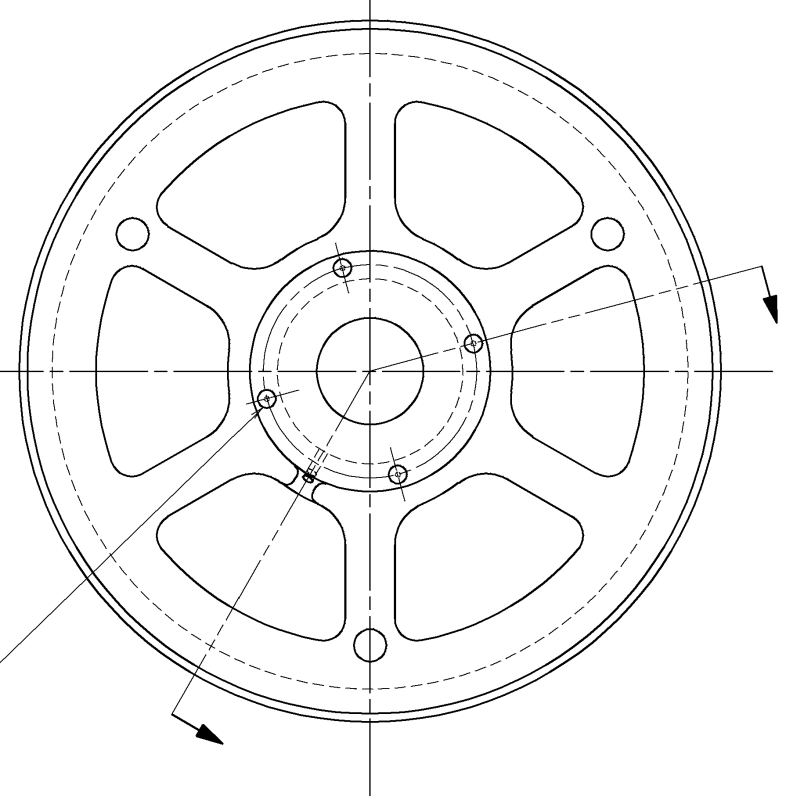
NOTE:
 BEARING 225618 MAY BE
 SUBSTITUTED FOR BEARING 224196.
 -224196 WILL NOT SUBSTITUTE
 FOR 225618.

QTY	UNIT	FIG. NO.	DESCRIPTION	MATERIAL	OR	QTY	UNIT	FIG. NO.
2			BEARING RETAINER			72893		
1			SHEAVE			91754-9		
1			BEARING		OR	225618		1
2			BEARING RETAINER			78804		
1			SHEAVE			91754-2		
1			BEARING			224196		1

A
 B
 C

1. SEE NOTE

CENTER PUNCH EACH FLAT
 HEAD SCREW FOR LOCKING
 IN POSITION.



SUPERSEDES 24377 OF 5-16-67

REV. 1	Manitowoc Cranes, Inc.	SHEAVE ASSEMBLY
DR. RAD	Manitowoc, Wisconsin	32 DIA. FOR 1.25 WIRE
EC. EGT	MODEL 4000H & 4600	ROPE WITH STRAIGHT
APP. MR		ROLLER BEARING

ASSEMBLIES USED ON
24371
418981
419029
94905
182216
182222
182407
182546
95961
183057

REVISIONS
 6-1-76 CRP
 A B C D I ADDED
 7-25-83 CRP
 REDRAN CADAM
 CK: LS
 APP: PNR

ENG. NO.
 24377

DATE
 1-29-76

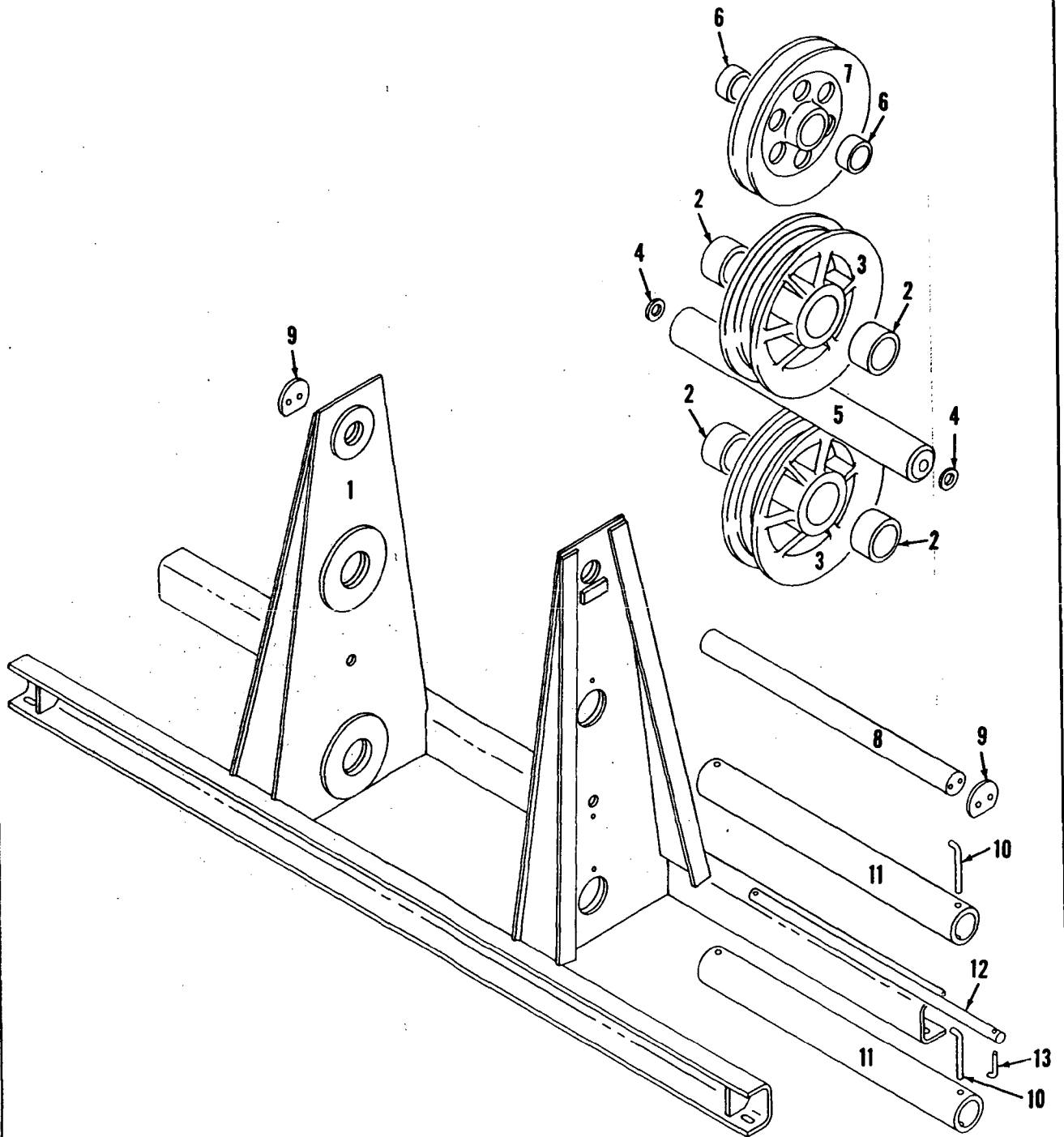
PATTERN NO.

ENG. NO.
 24377

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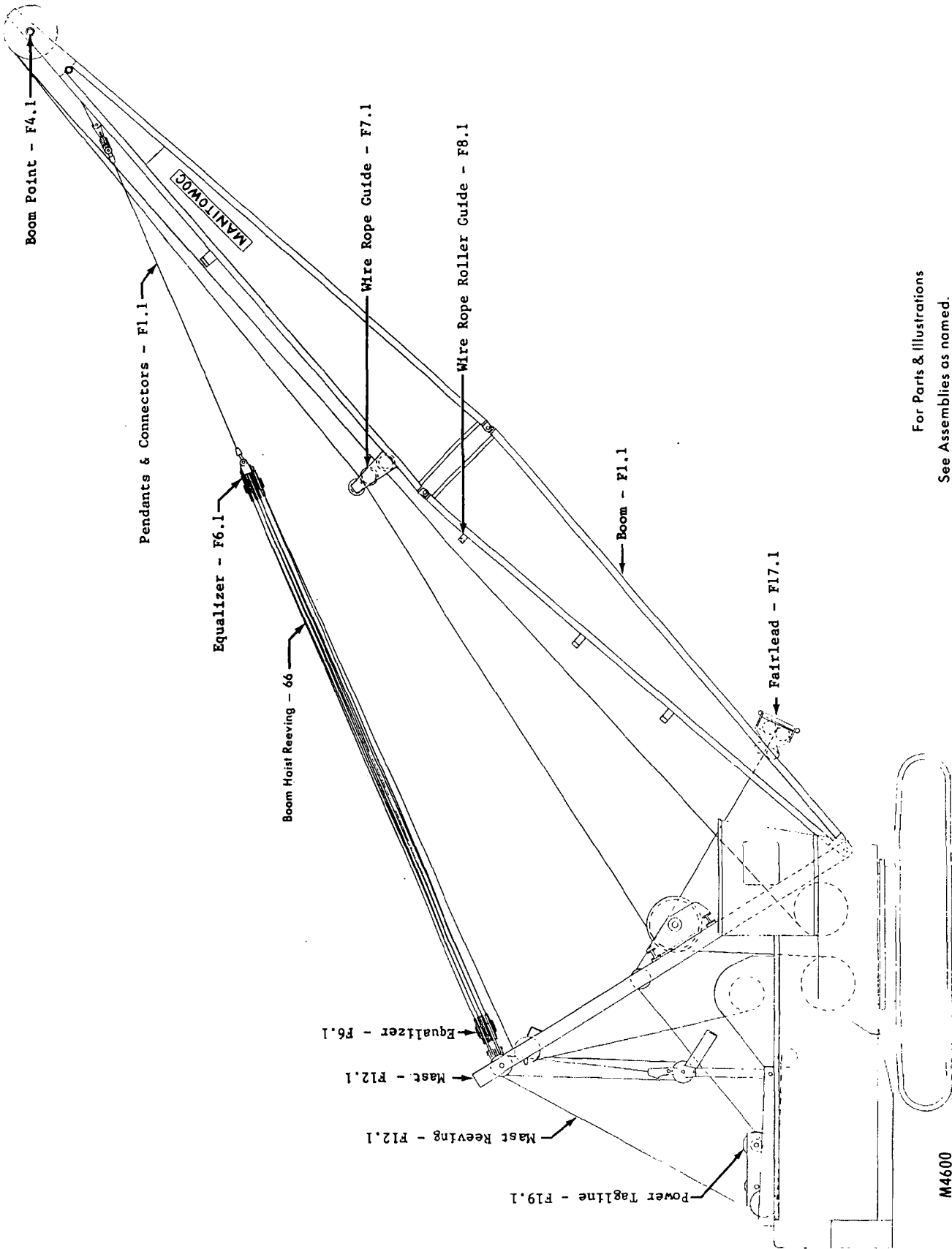
Manitowoc, Wisconsin



33404A1

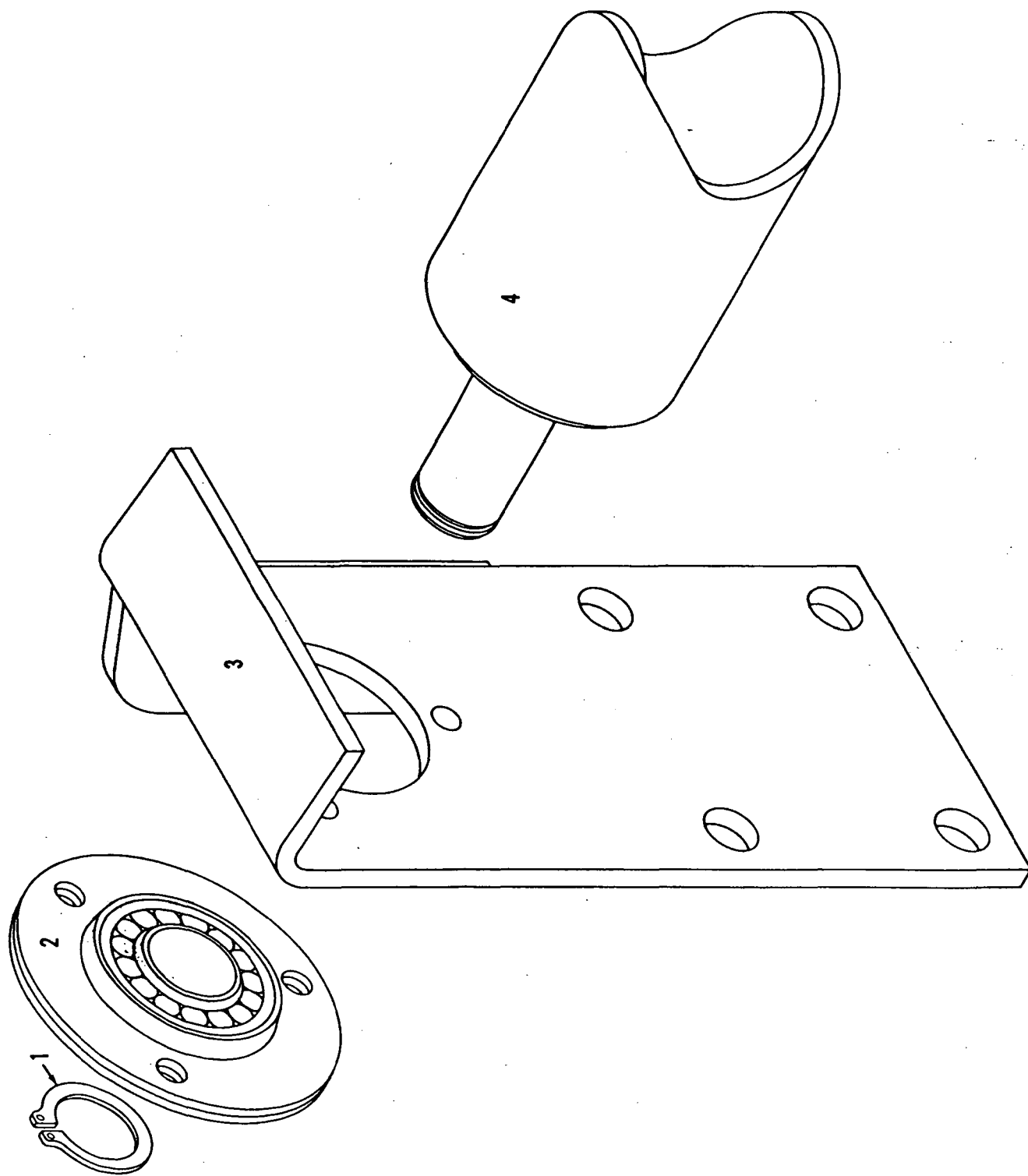
MATERIAL LIST ON BACK

CABLE GUIDE



For Parts & Illustrations
 See Assemblies as named.
 Number refers to Parts Manual Page.

M4600



MASTER

CABLE ROLLER GUIDE ASSEMBLY

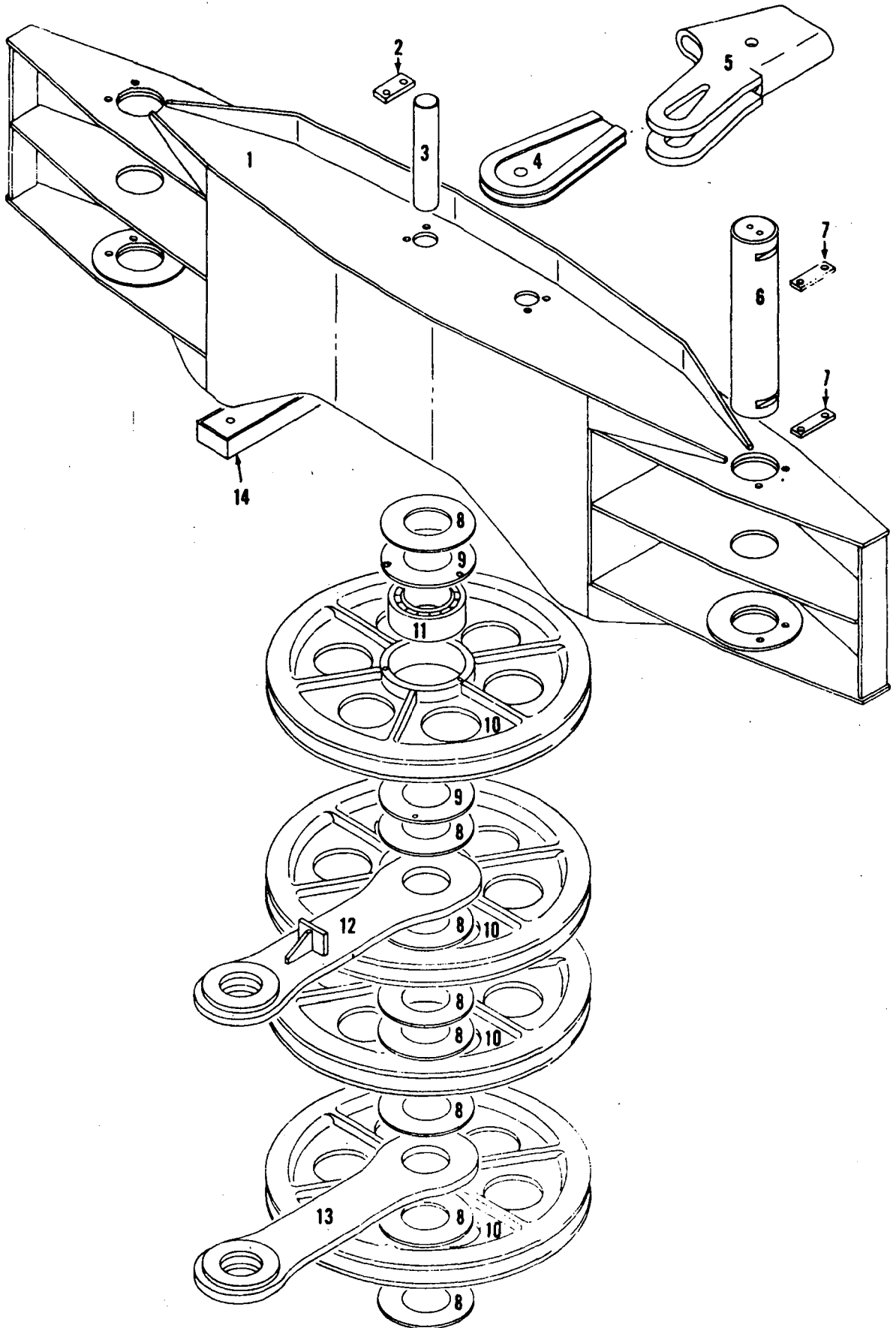
MATERIAL LIST ON BACK

77728A1

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MANITOWOC

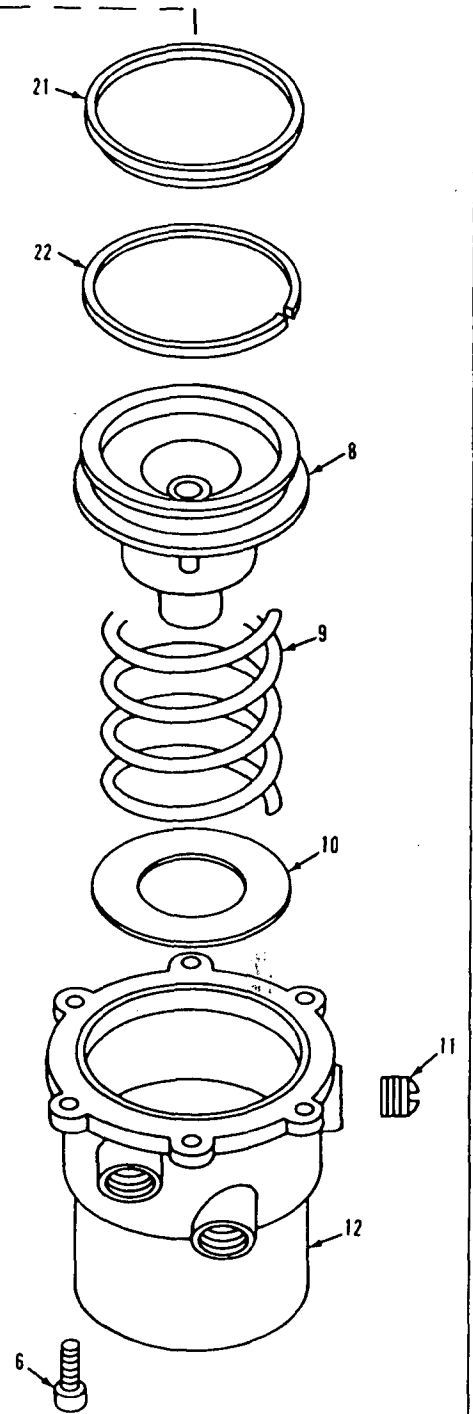
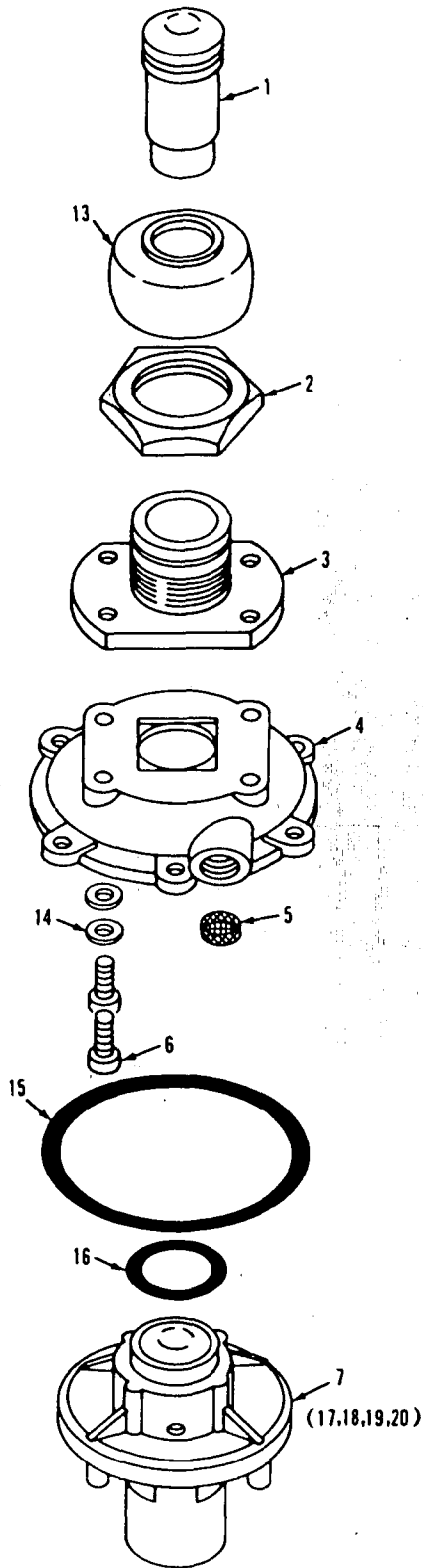
180249A1

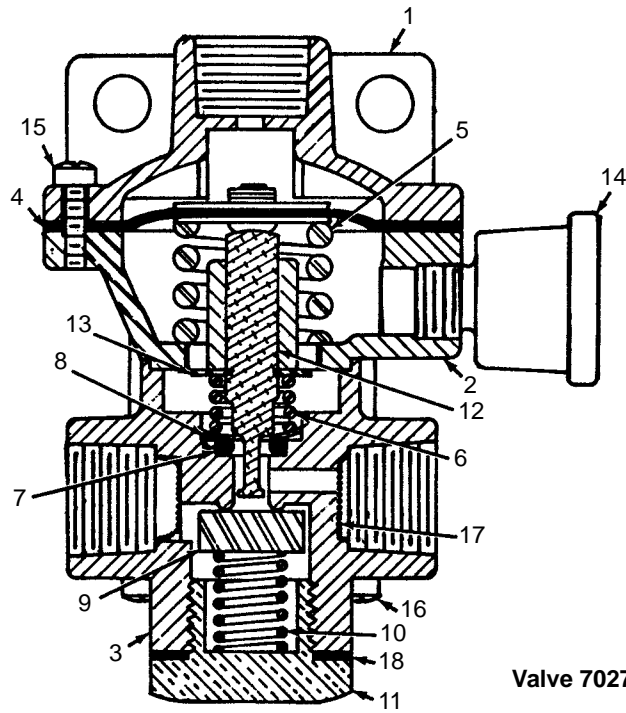
MATERIAL LIST ON BACK

LOWER EQUALIZER

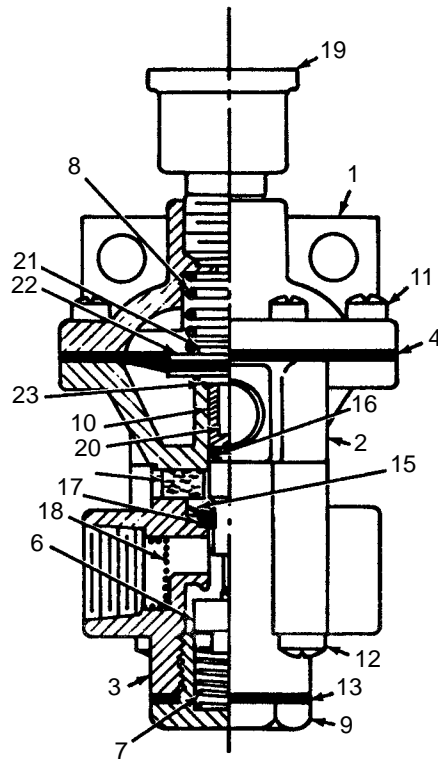
O-Number

MASTER





Valve 702755

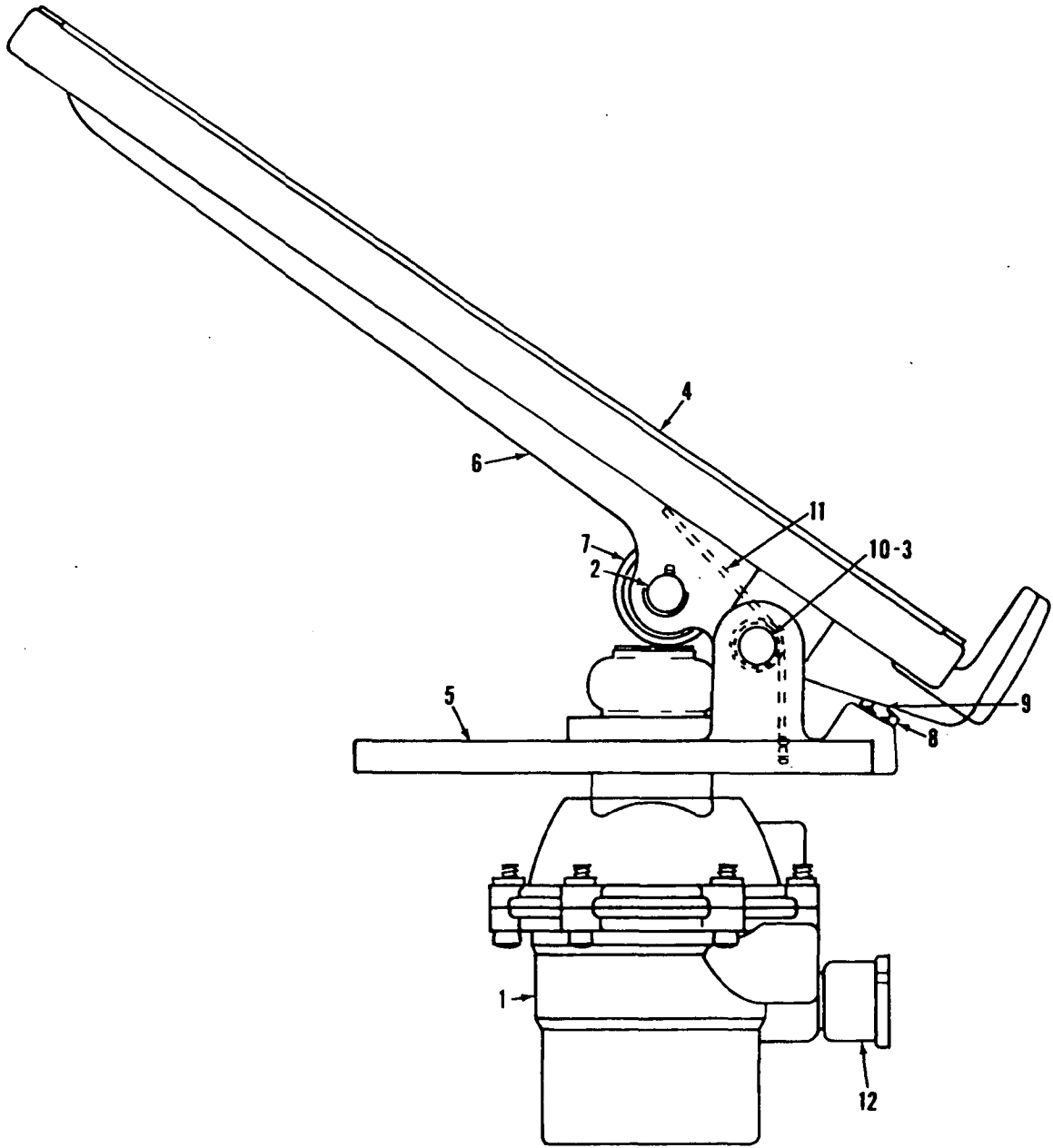


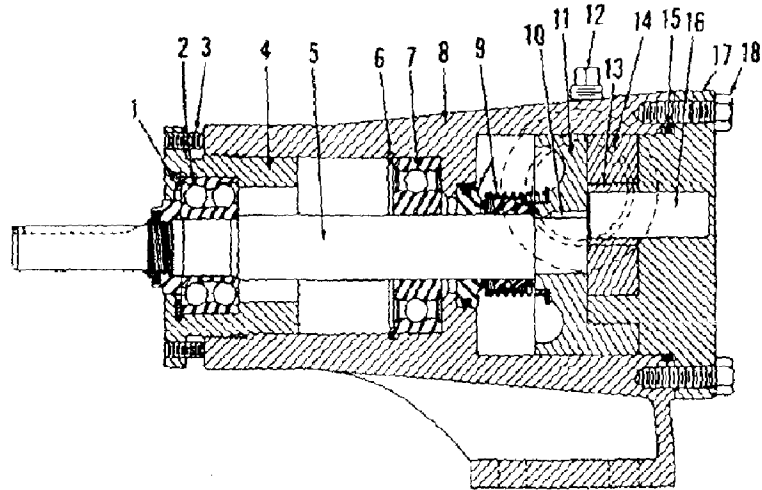
Valve 702756

ASSEMBLY	REVISION
O-294	E

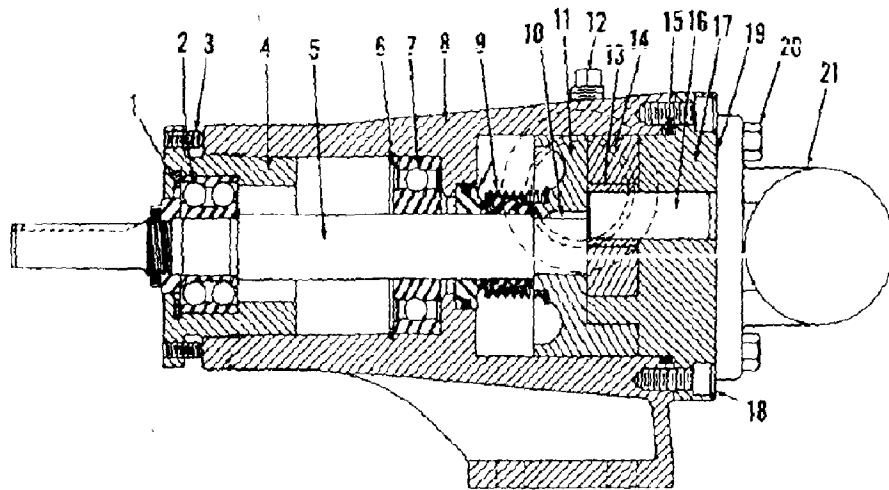
RELAY VALVE

MASTER



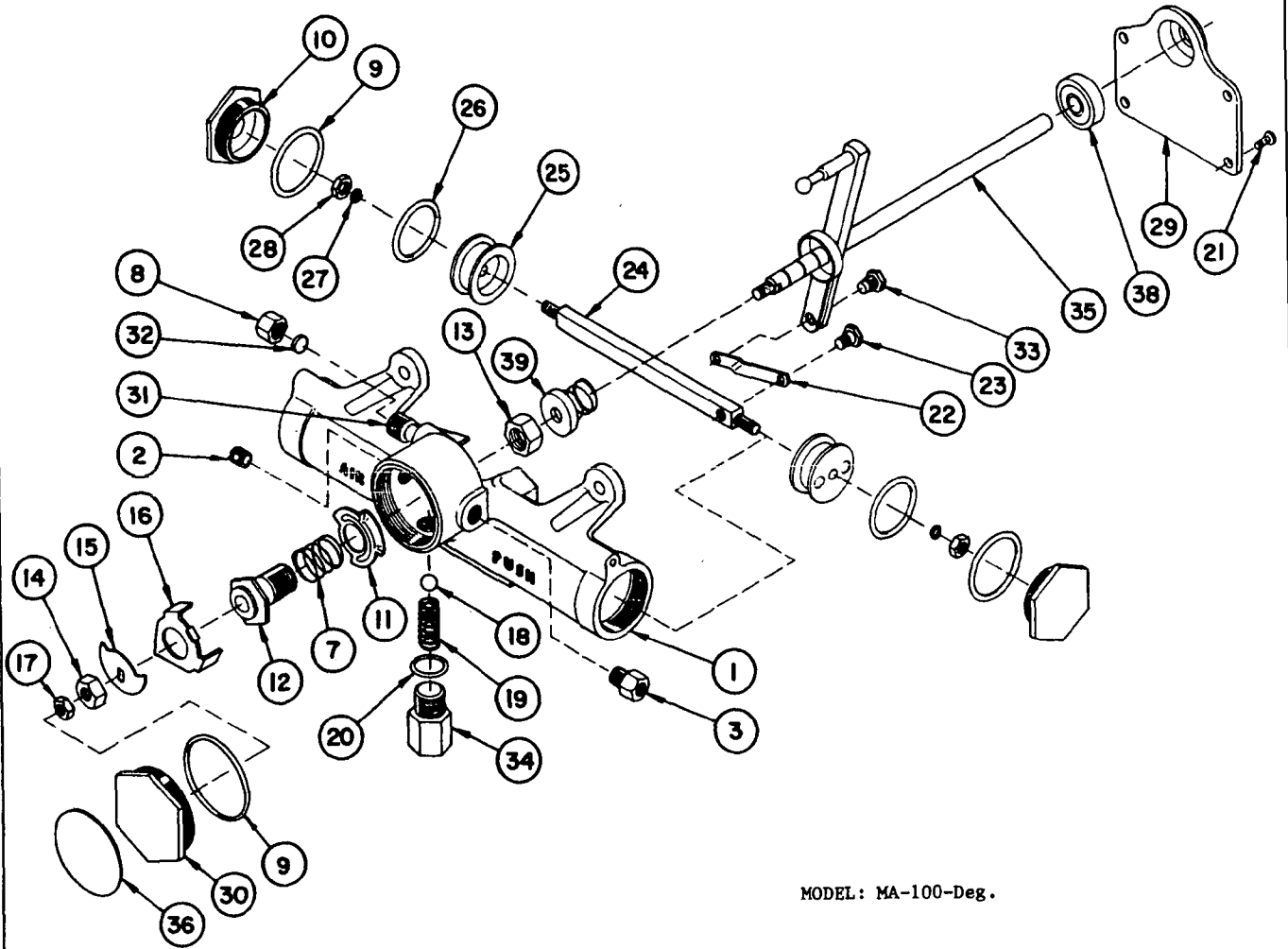


Pump No. 33252



Pump No. 33019

MASTER



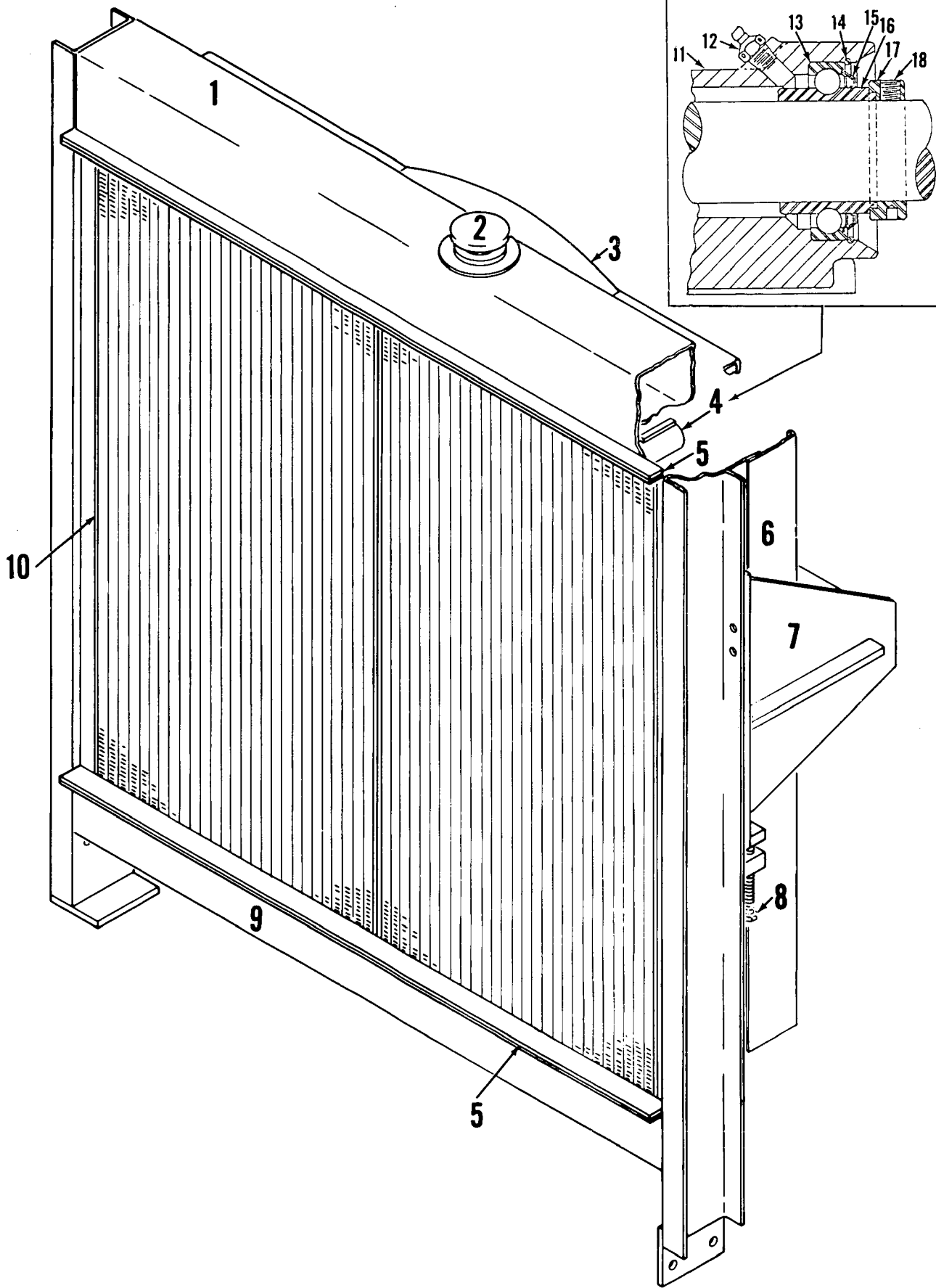
MODEL: MA-100-Deg.

WINDSHIELD WIPER MOTOR

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Manitowoc, Wisconsin



42295A1

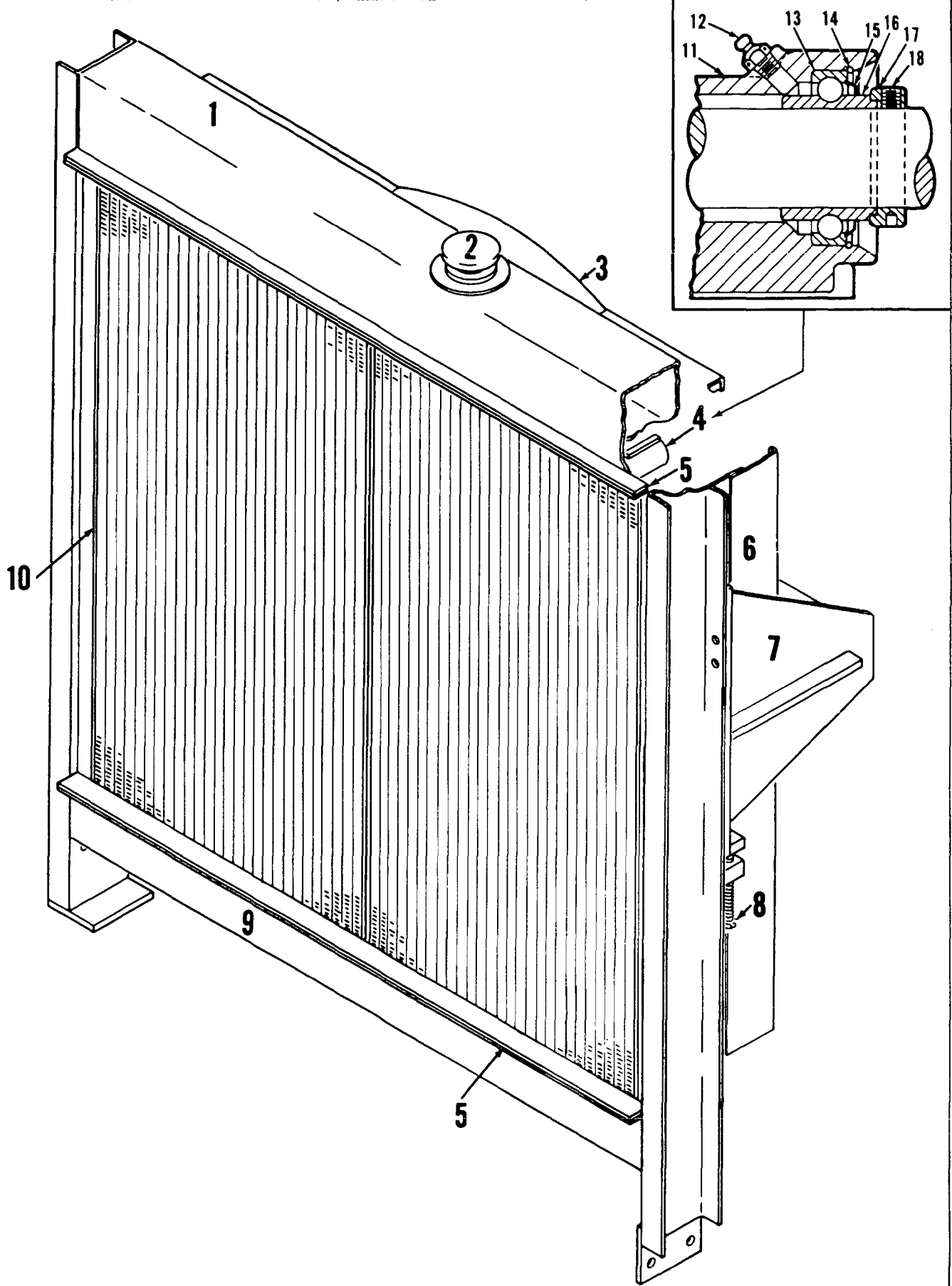
MATERIAL LIST ON BACK

RADIATOR

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Manitowoc, Wisconsin



MASTER

42295A1
(0-440)

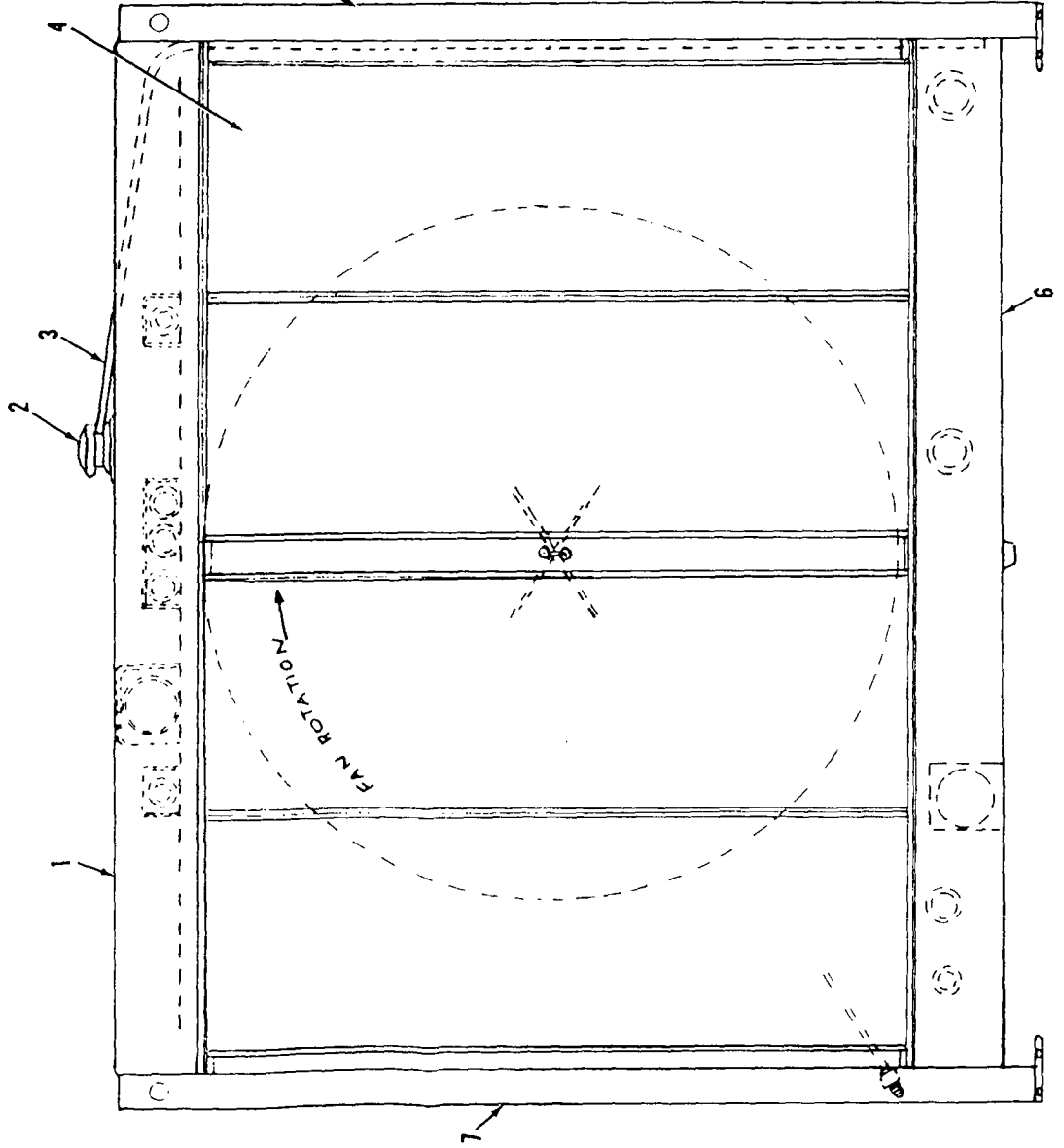
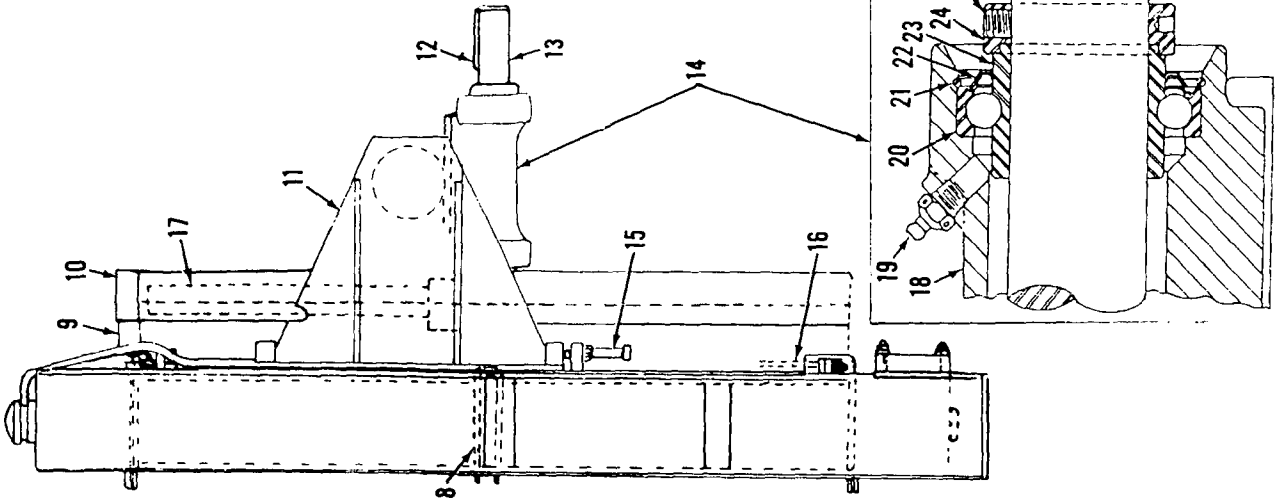
MATERIAL LIST ON BACK

RADIATOR

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Manitowoc, Wisconsin



MATERIAL LIST ON BACK

RADIATOR

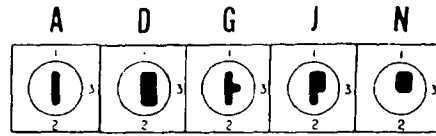
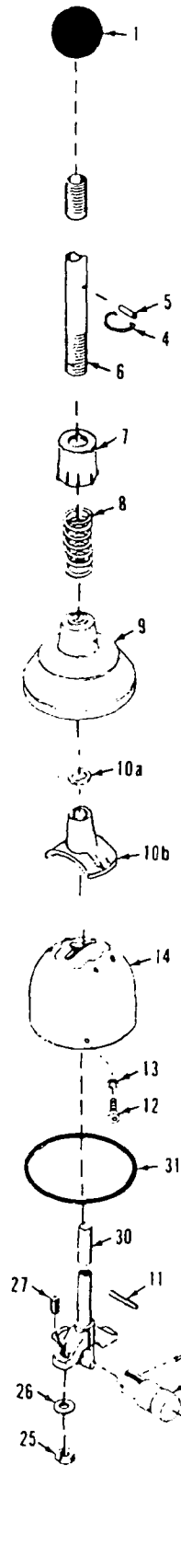
70045 151
0-440

74804581

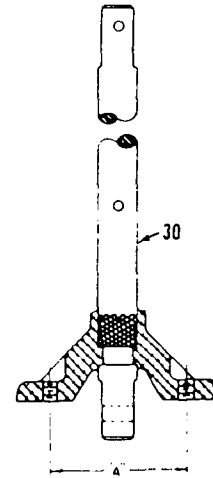
MANITOWOC ENGINEERING CO.

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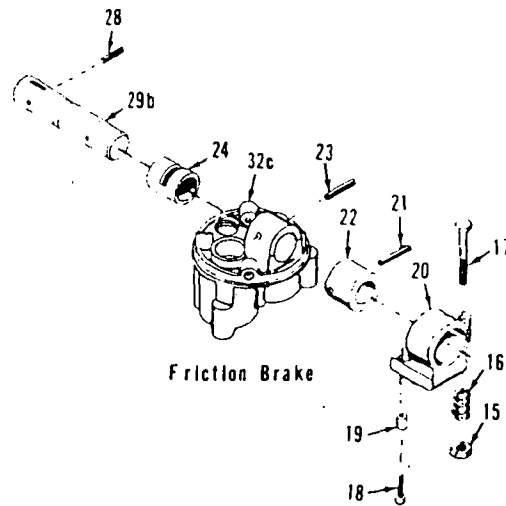
Manitowoc, Wisconsin



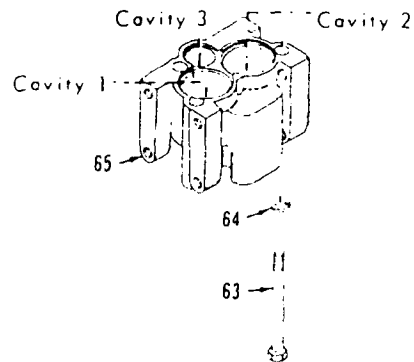
Handle Guide Inserts for Ref. No. 14



Yoke Spacing
Ref. No. 30



Friction Brake



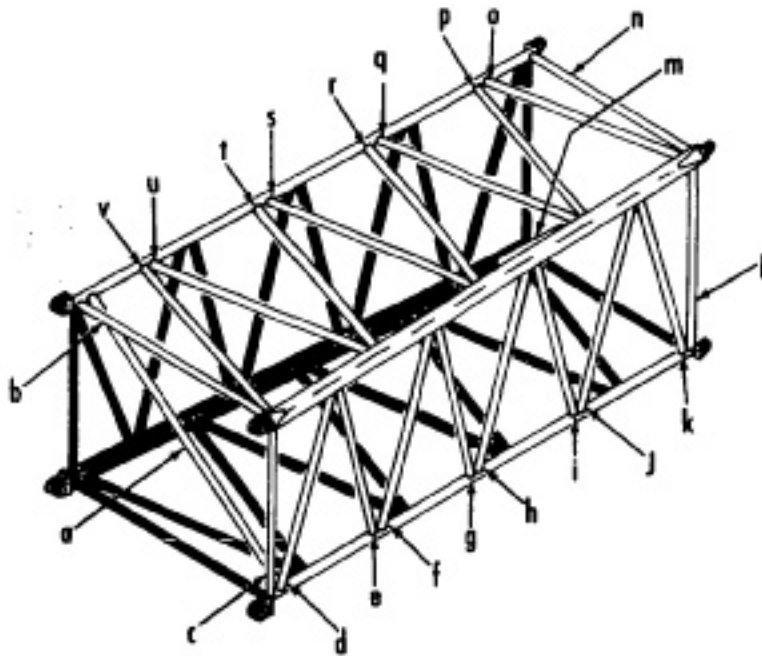
0-441-2B

MATERIAL LIST ON BACK

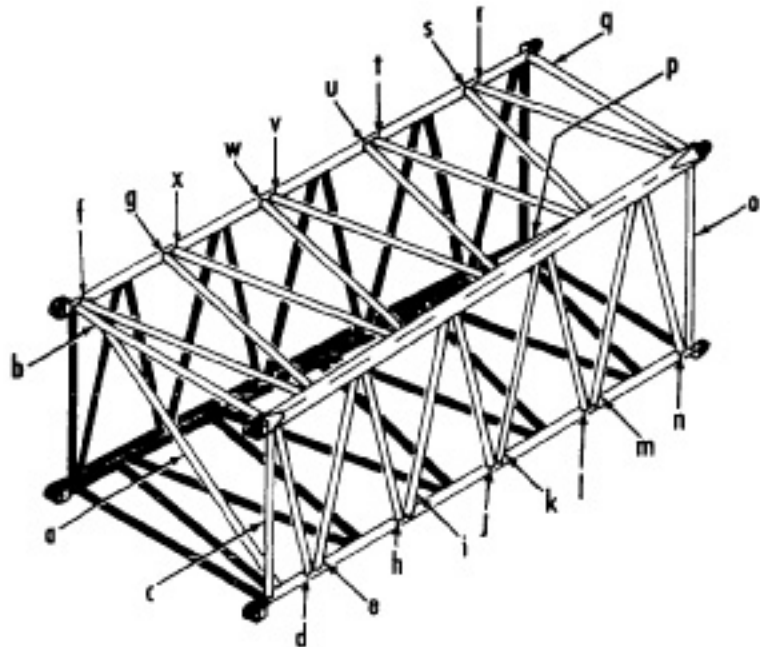
FLEXAIR VALVE OPERATING MECHANISM

Booms #27 to #22
Left Side and Bottom Lacings Black
Opposite Lacings Same Unless Noted.

MASTER



20' Transition Insert
#49554



20' Transition Insert
#419455

When ordering give the insert
number and lacing letter -
Example - Lacing #49554-E

PARTS DRAWINGS REFERENCE

20729
21359
21673
22635
23642
33522
93251
93560
93994
95451
180848
181195
182345
182455
182873
183210
190025
190095

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